

Unit 2 – Creating Systems to Manage Information

May 2019

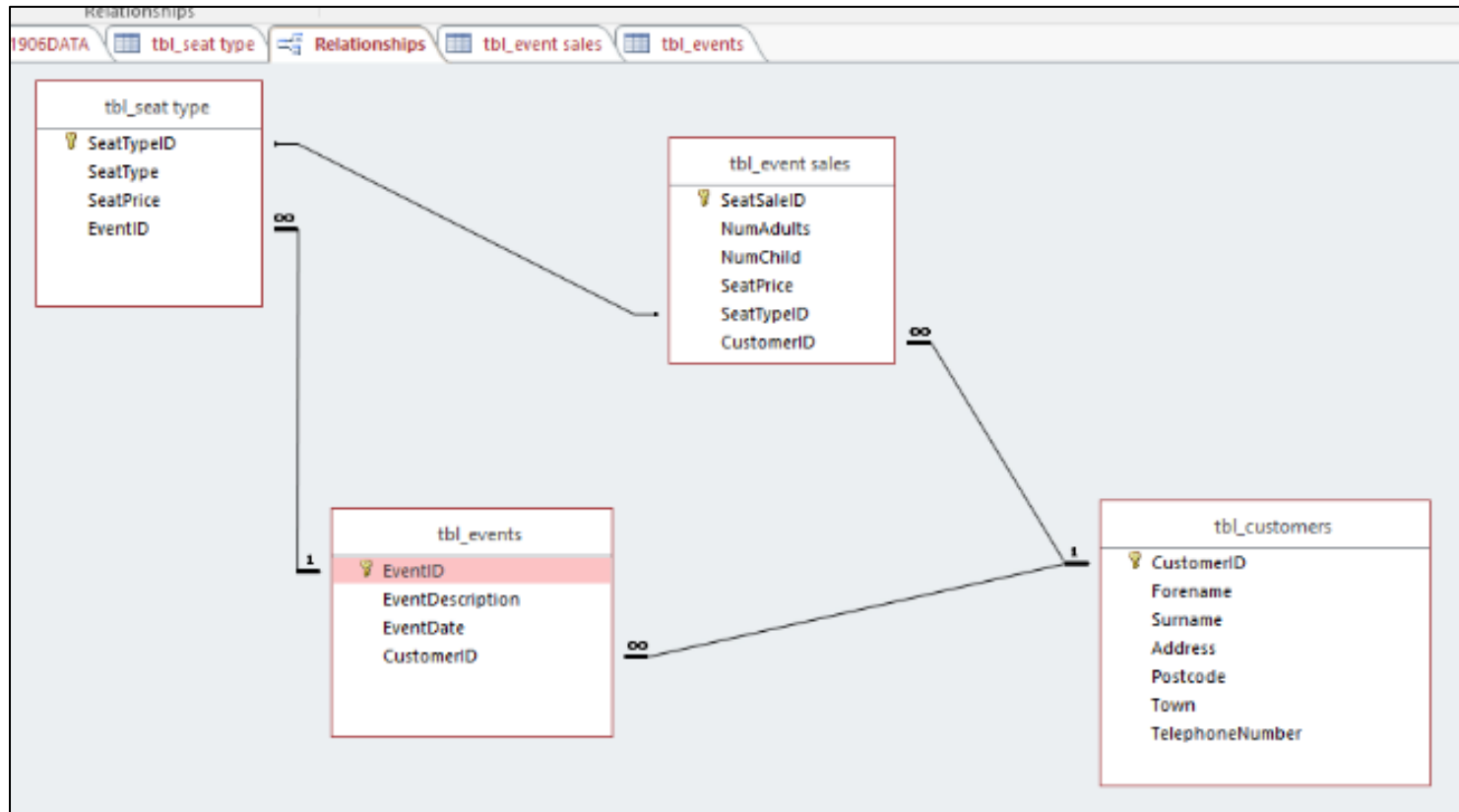
Script B

Activity	Band	Mark	Max Mark
1 – Database relationship screenprint	2	3	8
2 – Tables	3	5	8
3 – Interface	2	9	26
4 – Testing	2	5	12
5 – Evaluation	2	6	12
	Total	28	66

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Activity 1 – Database Relationship Screenprint, Band 2, Marks 4



Assessment focus	Band 0	Band 1	Band 2	Band 3	Band 4	Max. mark
Activity 1: ERD - screenprint	0	1-2	3-4	5-6	7-8	8
	No rewardable material	ERD shows an attempt at normalisation with significant data redundancy. ERD is partially complete with some correct relationships shown.	ERD shows that most data is correctly normalised with minimal data redundancy. ERD is partially complete with correct relationships but the relationship types are not clear.	ERD shows that most data is correctly normalised with minimal data redundancy. ERD is largely complete with mostly correct relationships and relationship types shown.	The ERD shows that the data is correctly normalised with no data redundancy. ERD has correct relationships and relationship types shown throughout.	

Trait	Band	Comments
1	1	<ul style="list-style-type: none"> There is significant data redundancy. The EventID should not be in tbl_seattype it should be in tbl_event sales, treat as one error. customerID should not be in tblEvent second error. SeatPrice is in two tables. Significant data redundancy
2	2	<ul style="list-style-type: none"> The relationship line between tbl_seat type and tbl_event sales is correct, the relationship line between tbl_customers and tbl_event sales is correct. The relationship between tbl_customers and tbl_events is incorrect. The relationship between tbl_events and tbl_seat type is incorrect
Band	2	Whilst bands 2 and 3 have the same criteria for trait 1, band 2 is assigned to that trait as the evidence for trait 2 is band 2. There is enough evidence to award bottom of band 2.
Mark	3	

Activity 2 – Table Structures and Validation, Band 3, Marks 5

Table Structures

Add screenprints of each of your tables in design view showing the table names, field names and data types **ONLY**

Field Name	Data Type
CustomerID	Number
Forename	Short Text
Surname	Short Text
Address	Short Text
Postcode	Short Text
Town	Short Text
TelephoneNumber	Short Text

Field Name	Data Type
SeatSaleID	Short Text
NumAdults	Number
NumChild	Number
SeatPrice	Currency
SeatTypeID	Short Text
CustomerID	Number

Field Name	Data Type
SeatTypeID	Short Text
SeatType	Short Text
SeatPrice	Currency
EventID	Short Text

Field Name	Data Type
EventID	Short Text
EventDescription	Short Text
EventDate	Date/Time
CustomerID	Number

Trait 1

- A recognised naming convention has been used consistently for tables. Field naming is consistent

Trait 2

- Learner has identified all primary and foreign keys that were shown in Activity 1

Trait 3

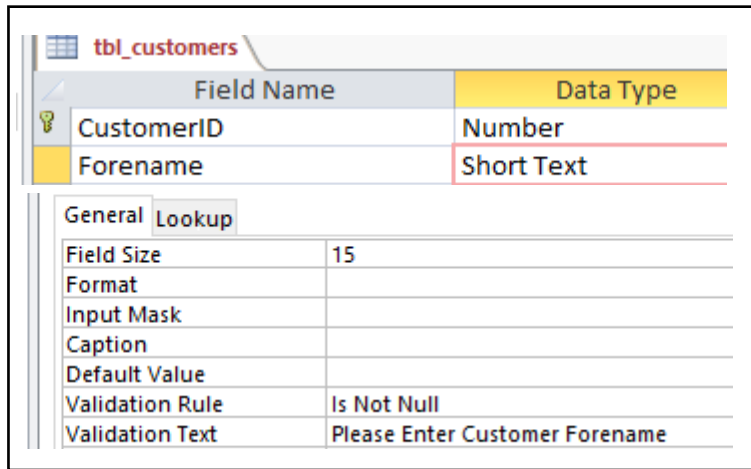
- All data types correct. NumAdults, NumChild – number, SeatPrice – currency, EventDate – Date/Time, primary and foreign key data types match and the rest are text

Table Validation

Ensure the validation and the field it is applied to can be seen clearly in your screenshots.

Presence Checks

- Add screenprints of **one** presence check
- List the table and field names of further presence checks you have applied



Field Name	Data Type
CustomerID	Number
Forename	Short Text

General	
Field Size	15
Format	
Input Mask	
Caption	
Default Value	
Validation Rule	Is Not Null
Validation Text	Please Enter Customer Forename

Trait 4

- Validation rule and validation text are suitable
- Forename is a required field
- Some other suitable presence checks listed

Is Not Null presence checks have been used on:-

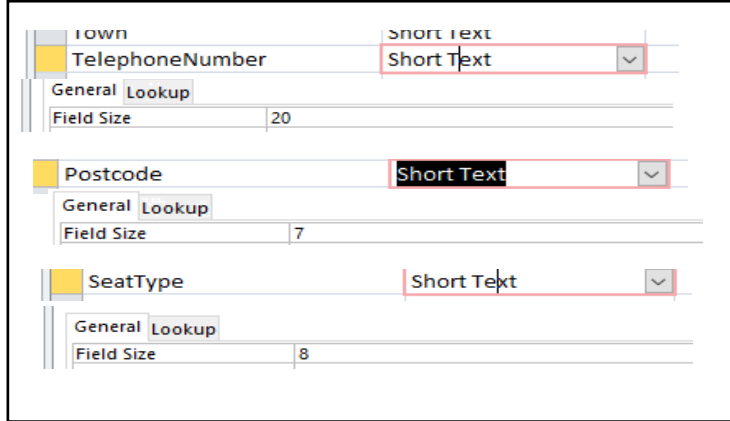
- tbl_customers surname, - tbl_customers address, - tbl_customers postcode, - tbl_customers town, - tbl_customers telephone number
- tbl_event sales numadults, - tbl_event sales , numchild, - tbl_event sales seatprice , - tbl_event , sales seattypeID
- tbl_event sales customerID, - tbl_events eventdescription
- tbl_events eventdate
- tbl_events customerID
- tbl_seat type seattype
- tbl_seat type seatprice
- tbl_seat type eventID

Required Presence checks have been used on:-

- tbl_customers customerID, - tbl_event sales seatsaleID, - tbl_events eventide,
- tbl_seat type seattypeID

Length Checks

- Add screenprints of **three** length checks



Trait 4

- Telephone number in data set has a length of 14 but this is not too extreme, so fine
- Postcode length suitable
- SeatType length suitable

Value Lookups

- Add screenprints of **all** value lookups you have applied

tbl_event sales for both screenprints

SeatTypeID	
Display Control	Combo Box
Row Source Type	Table/Query
Row Source	SELECT [tbl_seat type].[SeatTypeID] FROM [tbl_se
Bound Column	1
Column Count	1
Column Heads	No
Column Widths	2.54cm
List Rows	16
List Width	2.54cm
Limit To List	No

CustomerID	
Display Control	Combo Box
Row Source Type	Table/Query
Row Source	SELECT [tbl_customers].[CustomerID] FROM tbl_c
Bound Column	1
Column Count	1
Column Heads	No
Column Widths	2.54cm
List Rows	16
List Width	2.54cm
Limit To List	No

Trait 4

- Neither of these screenprints show a value lookup, they are both table lookups. Bear in mind when looking at table lookups, however, limit to list has not been set to Yes
- SeatType should have had a value lookup and could possibly have included value lookups on NumAdults, NumChild and Event Date– did not need to though

Table Lookups

- Add screenprints of **all** table lookups you have applied

tbl_events

tbl_seat type

CustomerID	Number
General Lookup	
Display Control	Combo Box
Row Source Type	Table/Query
Row Source	SELECT [tbl_customers].[CustomerID] FROM tbl
Bound Column	1
Column Count	1
Column Heads	No
Column Widths	2.54cm
List Rows	16
List Width	2.54cm
Limit To List	No

EventID	Short Text
General Lookup	
Display Control	Combo Box
Row Source Type	Table/Query
Row Source	SELECT [tbl_events].[EventID] FROM tbl_event
Bound Column	1
Column Count	1
Column Heads	No
Column Widths	2.54cm
List Rows	16
List Width	2.54cm
Limit To List	No

Trait 4

- Neither of these should really be foreign keys but learner has already been penalised in activity1. Those shown do match foreign keys in their structure. However, limit to list has not been set to Yes

Range Checks

- Add screenprints of **all** range checks you have applied

tbl_event sales	
Field Name	Data Type
SeatSaleID	Short Text
NumAdults	Number
Validation Rule	Is Not Null And 1<8
Validation Text	Please Enter Number of Adults no Greater Than 8

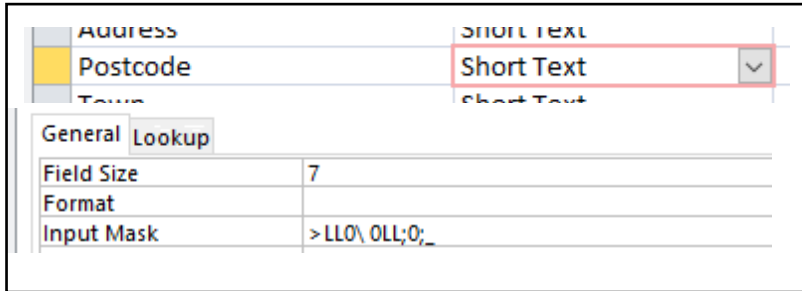
tbl_event sales	
Field Name	Data Type
SeatSaleID	Short Text
NumAdults	Number
NumChild	Number
Default value	0
Validation Rule	Is Not Null And 1<8
Validation Text	Please Enter Number of Children no Greater Than 8

Trait 4

- Neither range check is suitable
- 1<8 would not work as a range of between 1 and 8 for adults
- 1<8 would not work as a range for NumChild, should be taking into account that at least one adult seat has to be purchased so, if a range is included, it should be sensible ie between 0 and 7 / between 1 and 7

Format Checks

- Add screenprints of **all** format checks you have applied (if any)

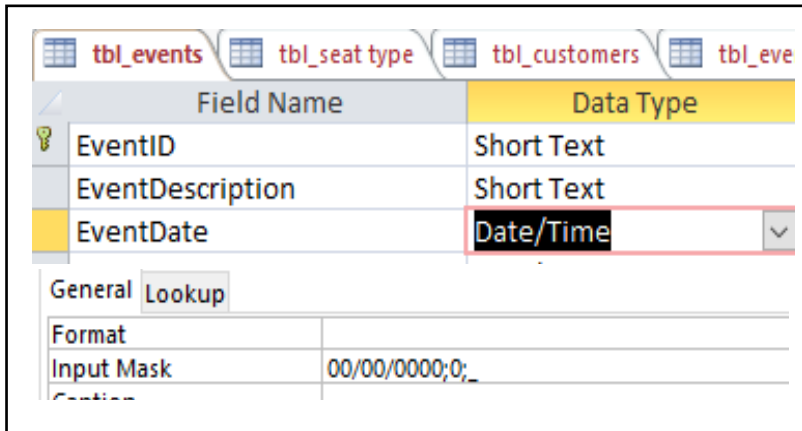


A screenshot of the Microsoft Access field properties window for a field named 'Postcode'. The 'Data Type' is set to 'Short Text'. The 'Input Mask' property is set to '>LL0\ 0LL;0;_'. The 'Field Size' is set to 7. The 'Format' property is empty. The 'General' tab is selected.

Property	Value
Field Size	7
Format	
Input Mask	>LL0\ 0LL;0;_

Trait 4

- Input mask is suitable for postcode
- Ignore format for date as only interested in formats on text fields
- Should have been one for the telephone number



A screenshot of the Microsoft Access table design view for a table named 'tbl_events'. The table has three fields: 'EventID' (Short Text, primary key), 'EventDescription' (Short Text), and 'EventDate' (Date/Time). The 'EventDate' field is highlighted with a red border. The 'Input Mask' property for 'EventDate' is set to '00/00/0000;0;_'. The 'Format' property is empty. The 'General' tab is selected.

Field Name	Data Type
EventID	Short Text
EventDescription	Short Text
EventDate	Date/Time

Property	Value
Format	
Input Mask	00/00/0000;0;_

Activity 2: Table structure and Validation	0	1-2	3-4	5-6	7-8	8
	No rewardable material	<p>Uses some meaningful field and table names with some inconsistencies.</p> <p>The table structure identifies some primary and foreign key fields.</p> <p>The table structure has limited use of correct data types.</p> <p>Limited use of validation which may be inaccurate.</p>	<p>Uses meaningful field and table names with minor inconsistencies.</p> <p>The table structure identifies most primary and foreign key fields.</p> <p>The table structure has correct data types for most fields.</p> <p>Accurate validation rules for some of the fields that require validation.</p>	<p>Uses a recognised naming convention with minor inconsistencies for fields and tables.</p> <p>The table structure identifies all primary and most foreign key fields.</p> <p>The table structure has correct data types for most fields.</p> <p>Accurate validation rules for most of the fields that require validation.</p>	<p>Uses a recognised naming convention consistently for fields and tables.</p> <p>The table structure identifies all primary and foreign key fields.</p> <p>The table structure has correct data types for all fields.</p> <p>Accurate validation rules for all fields that require validation.</p>	

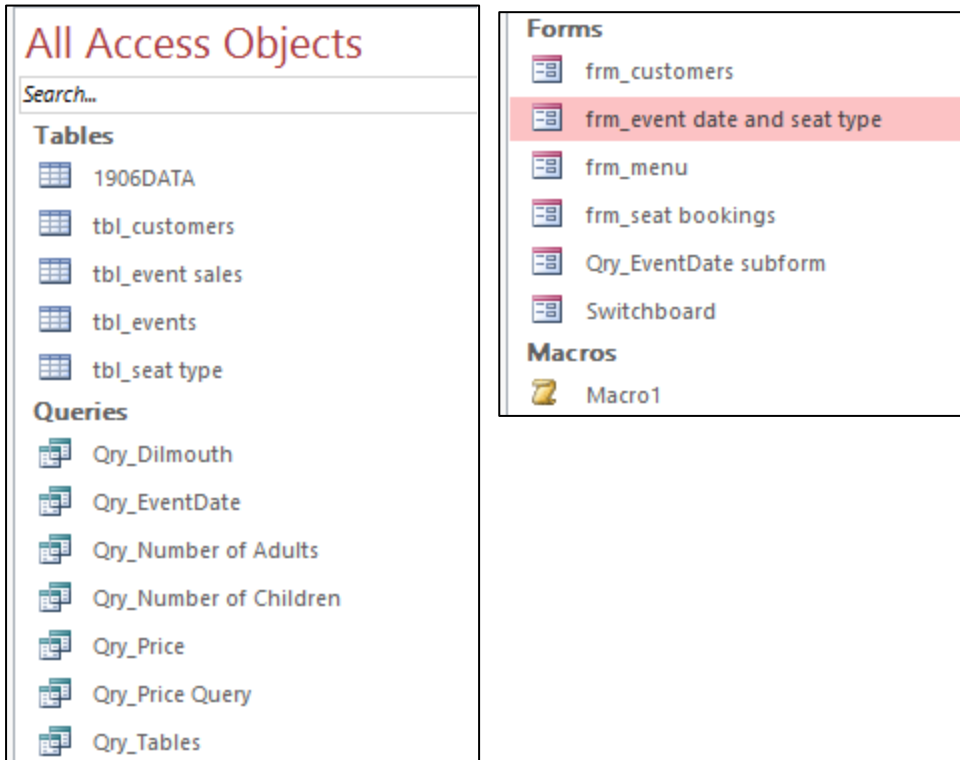
Trait	Band	Comments
1	4	<ul style="list-style-type: none"> Recognised naming convention used consistently for both fields and tables
2	4	<ul style="list-style-type: none"> All of their primary and foreign keys are present. Matches their ERD from activity 1
3	4	<ul style="list-style-type: none"> All data types are correct. NumAdult, NumChild are number, SeatPrice is currency, EventDate is Date/Time. Primary/foreign keys match data types and the rest are text
4	2	<ul style="list-style-type: none"> Presence check evidence is fine There is a slight weakness with telephone number in that data shows length of 14 and learner has set at 20. However, that is very slight so do not penalise There is no evidence of any value lookups There is evidence of four table lookups (2 shown as value lookups). These match the foreign keys in the learner's solution). However, there is a weakness as none have limit to list set to yes There are no suitable range checks shown. Both include incorrect validation i.e. 1>8 and NumChild, if applied, should only have a range of 0 to 7 or 1 to 7 Whilst there are some inaccuracies the validation is above limited. Best fits accurate validation for some of the fields that require validation
Band	3	Overall there is enough evidence to place at the bottom of mark band 3. The weaknesses in validation prevent higher marks
Mark	5	

Activity 3 – Interface and Functionality, Band 2, Marks 9

Object Names

Add a screenshot that shows the names of all objects in the database.

Ensure the names are not truncated



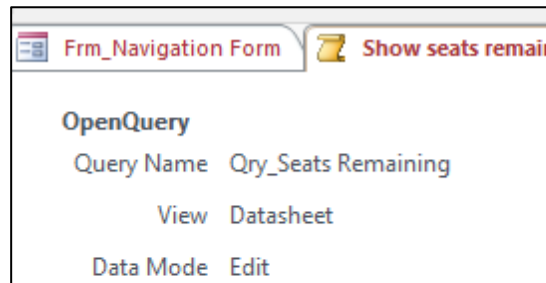
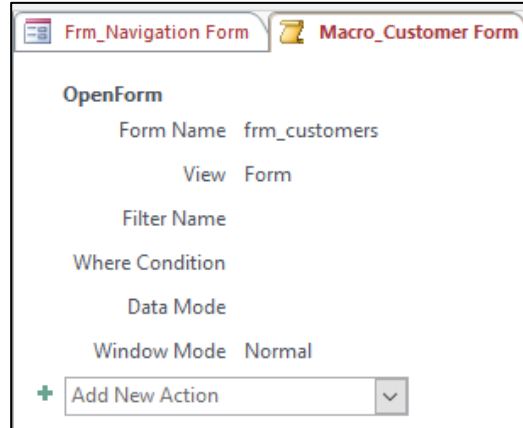
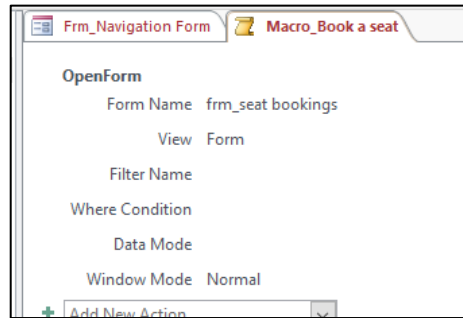
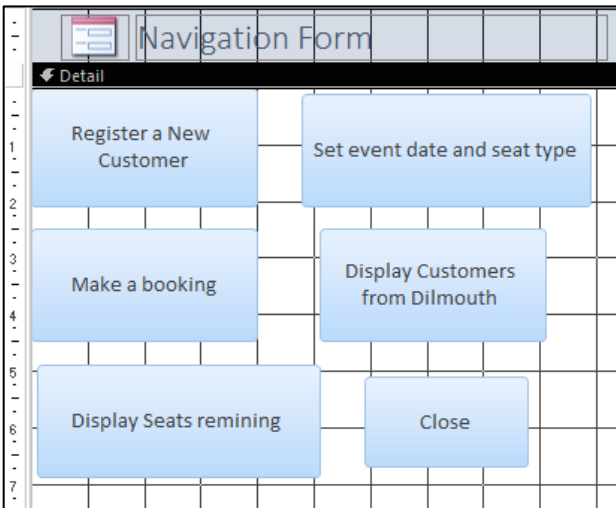
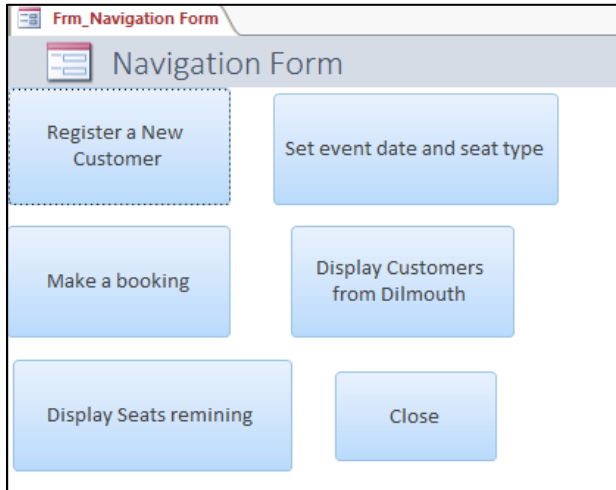
Trait 1

- Learner does not have the required objects. Looking further into the work can see that query 3 (parameter query) is missing. Report can be seen further on.

Trait 3

- Some relevant objects have names that are easy to maintain. Queries 1 and 2 are easily recognisable. Whilst learner has included query 4 it cannot be determined from the objects given, which one it is. The relevant forms include suitable form names

Menu



Trait 1

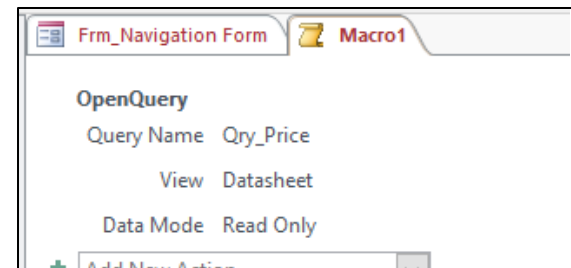
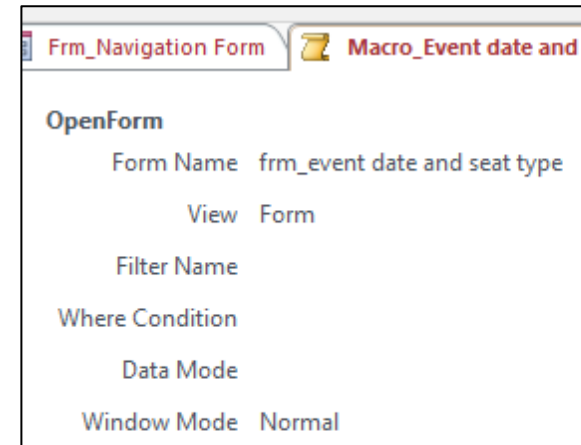
- Menu includes some of the buttons we would expect to see. One query is missing and there does not appear to be a button for the report

Trait 3

- Little attempt at house style
- Title is not useful
- Buttons are all different sizes. Captions on them are inconsistent eg use of uppercase/lowercase

Trait 4

- Each button on menu has been automated – opening relevant object



Input form to register a new customer

tbl_customers

Forename

Surname

Address

Postcode

Town

TelephoneNumber

Add Record

Trait 3

- Form reflects purpose
- Title is not useful
- TelephoneNumber is not suitable as a label
- Field widths too wide for data that will be in them
- ID field is missing
- No user aids eg asterisks, instructions etc

Trait 4

Looking for:

- Would open ready for data entry
- CustomerID would be automatically generated
- Save button would:
 - cancel save if record is invalid and display suitable error message(s)
 - save a valid record, display a save message and move to a new record ready

tbl_customers

Detail

Forename

Surname

Address

Postcode

Town

TelephoneNumber

Add Record

There is no attempt to automate the generation of the ID or save process. Table level validation only exists

Input form to purchase seats if they are available

It should show the relevant event, customer and seat sale information. In addition it should show the total cost for adult tickets, the total cost for child tickets and the overall cost.

Seat Bookings

Please Select Seat Type

Please select the number of adults

Please Select the Number of Children

Show Prices Add Record

Seat Bookings

Please Select Seat Type Unbound

Please select the number of adults Unbo

Please Select the Number of Children Unbo

Show Prices Add Record

frm_seat bookings Qry_Price

tbl_event sales

SeatSaleID
NumAdults
NumChild
SeatPrice
SeatTypeID

Field:	NumChild	NumAdults	SeatPrice
Table:	tbl_event sales	tbl_event sales	tbl_event sales
Sort:			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:			
or:			

OpenQuery

Query Name Qry_Price

View Datasheet

Data Mode Read Only

+ Add New Action

Trait 3

- Form does not fully reflect purpose. For example cannot select event, cannot select customer. No fields to show the relevant event, customer info etc.
- Title is fine
- Labels are useful
- Combo boxes for selection are useful
- No ID field
- No fields for the calculations

Trait 4

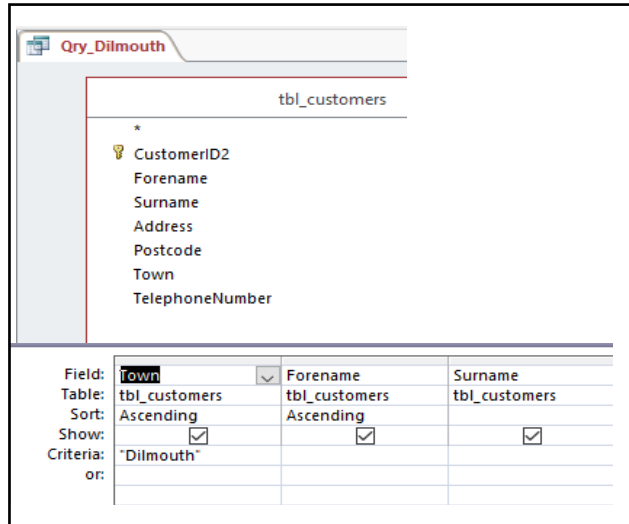
Looking for:

- Would open ready for data entry
- SaleID would be automatically generated
- Correct calculation for total cost of adult seats
- Correct calculation for total cost of child seats (10% cheaper than adult seat)
- Correct calculation for overall cost
- Cannot have more than 56 non-table seats
- Cannot have more than 46 table seats
- Must be at least 1 adult ticket bought
- Cannot be more than 8 tickets bought
- Save button would:
 - cancel save if record is invalid and display suitable error message(s)
 - save a valid record, display a save message and move to a new record ready

There is no attempt to automate the processes. There is a query and macro shown though, in terms of scenario and task, they are not relevant. Table level validation only

Queries

- (1) A query to display an alphabetically sorted list of customers from Dilmouth showing customer names and telephone numbers



Town	Forename	Surname
Dilmouth	Brian	Weston
Dilmouth	Charlotte	Spencer
Dilmouth	Connor	Webb
Dilmouth	Neville	Quinn
Dilmouth	Philip	Hunter

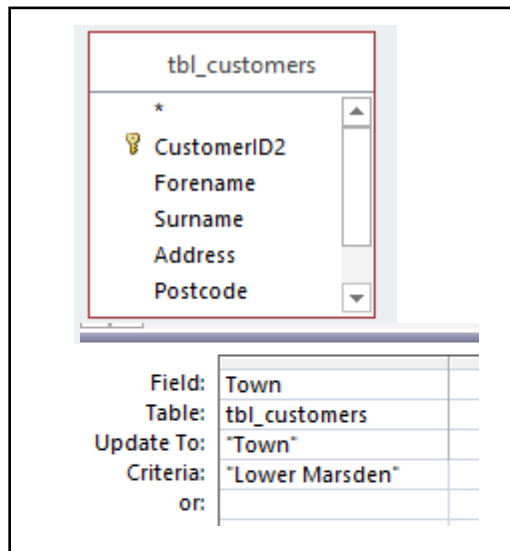
Trait 1

- The three field names shown are what would be expected. However, the instructions ask for telephone numbers to be displayed and this field is missing

Trait 2

- All correct (2 out of 3). Name only sorted forename. Surname sort missing. Town correct

- (2) A query to update the town name of Lower Marsden to Lower Marsden



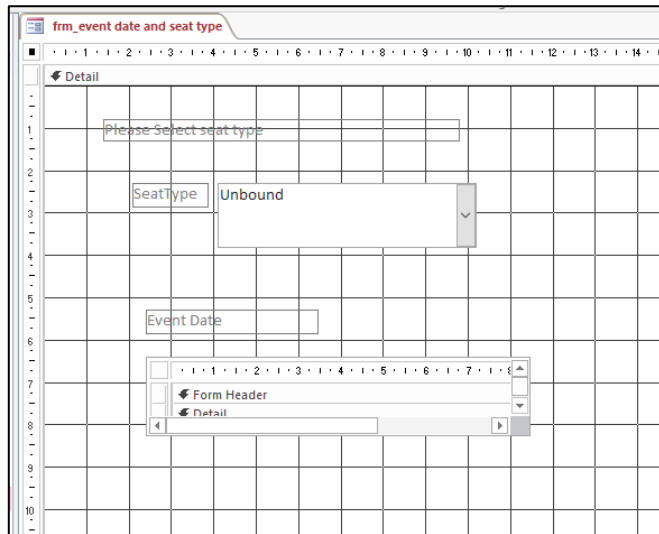
Trait 1

- The field name expected is present

Trait 2

- Update is incorrect ie should be "Lower Marsden" they have "Town"
- Criteria is incorrect should be "Lower Marsdon"
- 0 out of 2 correct

(3) A query that would allow a user to enter the parameters event date and seat type. Display the event description, customer names and post codes



Trait 1

- There is nothing of any relevance in terms of fields. Can see labels but not what fields are etc

Trait 2

- 0 out of 2 criteria ie no parameters are present as there is no query

Trait 3

- Cannot see generated field names – no query

(4) A query to display the number of seats remaining for each event. It should show the event description, total adult seats sold, total child seats sold and the total number of seats remaining

Field:	EventID	SeatSaleID	NumAdults	NumChild
Table:	tbl_seat type	tbl_event sales	tbl_event sales	tbl_event sales
Sort:				
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:	"1"	"2"		
or:				

Trait 1

- Event description missing, other fields missing eg total adult seats sold etc.

Trait 2

- Calculation missing to determine total adult seats sold
- Calculation missing to determine total child seats sold
- Calculation missing to determine number of seats remaining
- 0 out of 3 correct

Trait 3

- No generated fields have been included

Report

A report that shows customer sales information. It should display the forename, surname, number of adult seats bought and number of child seats bought for each customer. Calculate and display the total number of seats each customer has bought and the sales income this would generate, without any child discount. Calculate and display the overall number of seats sold and sales income without any child discount.

SeatSaleID	NumAdults	NumChild	SeatPrice	SeatTypeID	CustomerID
1	2	2	£29.00	1	
10	2	2	£20.00	2	
11	1	1	£20.00	2	
12	1	1	£20.00	2	
13	1	3	£20.00	2	
14	1	1	£20.00	2	
15	2	1	£20.00	2	
16	2	2	£20.00	2	
17	2	2	£20.00	2	
18	1	1	£20.00	2	
19	2	1	£20.00	2	
2	2	2	£29.00	1	
20	1	1	£20.00	2	
21	2	2	£20.00	2	
22	2	3	£20.00	2	

Trait 1

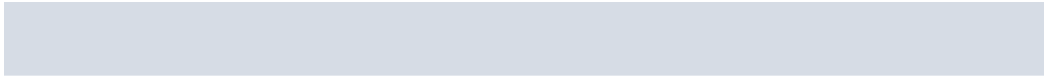
- Forename and surname missing. Rest are what you would expect to see

Trait 2

- No calculation for total seats each customer has bought
- No calculation for the sales income from the total seats each customer has bought
- Calculation for overall number of seats sold (assuming that is what is in the footer) is not correct. That is applying a sum to the SeatPrice
- No calculation for overall sales income
- 0 out of 4 calculations correct

Trait 3

- Extract of first page of report shown here
- Extract of second page of report shown on next page
- Learner did include the pdf report
- Report is not fit for purpose
- Title is not useful
- Required information is not shown



erID

2



9

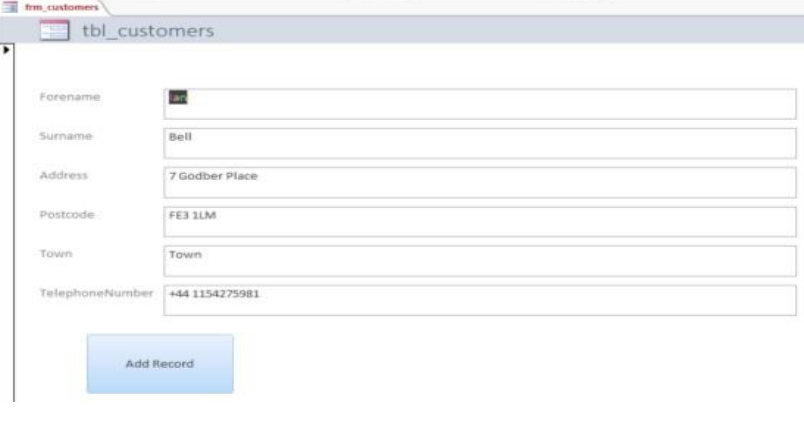
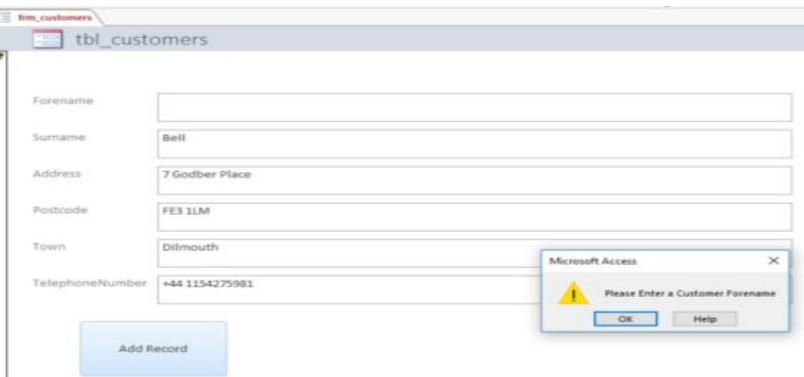


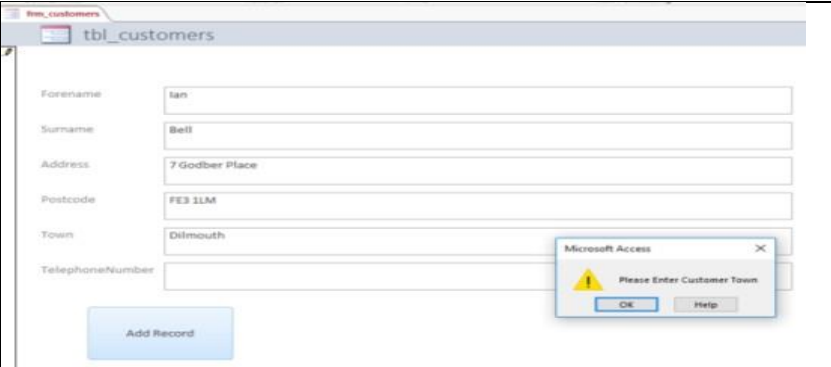
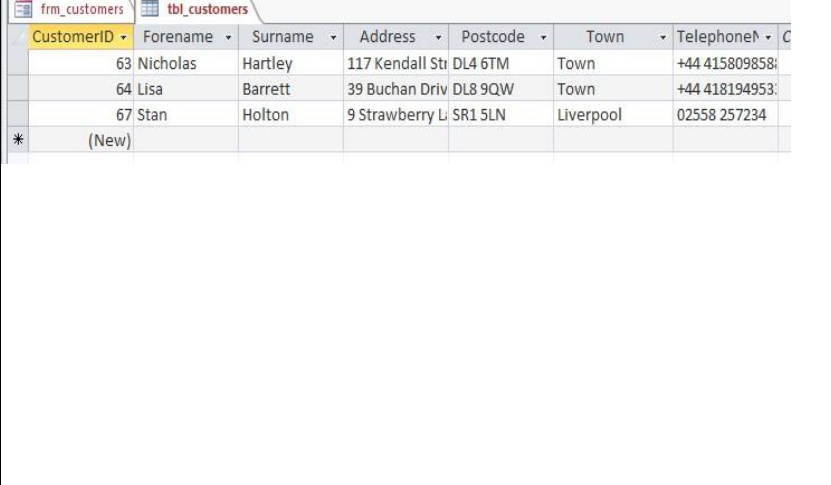
Assessment focus	Band 0	Band 1	Band 2	Band 3	Band 4	Max. mark
Activity 3: Interface and Functionality	0	1-7	8-13	14-19	20-26	26
	No rewardable material	<p>Interface is limited, including some forms, queries and reports required with some of the relevant fields</p> <p>Interface has details of some criteria and calculations required, which may include inaccuracies.</p> <p>Interface is unclear or provides limited information and there are inconsistencies and inaccuracies in formatting, so a user would experience difficulty in using the database and making maintenance by a third party difficult.</p> <p>Interface uses minimal validation and checking procedures resulting in a system with limited capacity to reduce errors or handle unexpected events.</p> <p>The database may not be fully functional and/or may have major errors that prevent the database from meeting the given criteria.</p>	<p>Interface is adequate, including most forms, queries and reports required with most of the relevant fields.</p> <p>Interface includes accurate details of some criteria and calculations required.</p> <p>Interface is clear but there are some inconsistencies and inaccuracies in formatting allowing a user to use the database with minor difficulties and allowing maintenance by a third party with minor difficulties.</p> <p>Interface uses some accurate validation and checking procedures, resulting in a system that minimises the most common errors and handles some unexpected events.</p> <p>The database is functional and meets some of the given criteria with minimal errors.</p>	<p>Interface is thorough, including the full range of forms, queries and reports required with most of the fields.</p> <p>Interface includes accurate details of most criteria and calculations required.</p> <p>Interface is clear but there are some inconsistencies and inaccuracies in formatting allowing a user to use the database with minor difficulties and allowing maintenance by a third party with minor difficulties.</p> <p>Interface uses accurate validation and checking procedures, resulting in a system that minimises the majority of errors and handles most unexpected events.</p> <p>The database is functional with minimal errors and meets the given criteria.</p>	<p>Interface is thorough, including the full range of forms, queries and reports required with all relevant fields.</p> <p>Interface includes accurate details of all criteria and calculations required.</p> <p>Interface is clear and intuitive, consistently and accurately formatted allowing a user to easily use the database and allowing it to be easily maintained by a third party.</p> <p>Interface uses accurate validation and checking procedures throughout, resulting in a robust system that minimises errors and handles unexpected events.</p> <p>The database is fully functional and fully meets the given criteria.</p>	

Trait	Band	Comments
1	2	One relevant object is missing. However, there is not enough to award band 3 as quite a few fields are missing etc
2	2	<ul style="list-style-type: none"> Query 1 has 2 out of 3 criteria correct Query 2 has 0 out of 2 criteria correct Query 3 is missing (0 out of 2 criteria correct) Query 4 is not suitable (0 out of 3 criteria correct) Learner has some criteria correct but the inaccuracies/omissions outweigh the accuracies
3	2	<ul style="list-style-type: none"> The menu does not really have a house style. Layout could be better in places. However, the form reflects its purpose overall The customer form reflects its purpose. However usability is questionable - Title is not useful, TelephoneNumber is not suitable as a label, field widths too wide for data that will be in them, ID field is missing and there are no user aids eg asterisks, instructions etc The sale form does not fully reflect purpose. Cannot select event or customer. There are no fields to show the relevant event and customer info, no ID field and no fields for calculations. There has been some attempt at providing a good user experience i.e. title is good, labels are useful and the combo boxes that are present would aid data entry The evidence only just makes it into band 2. What pushes it into there is that all three reflect their purpose (though not fully). The sales form includes some good user input aids (combo boxes, labels). It is very bottom of band 2 for this trait.
4	2	<ul style="list-style-type: none"> There is some attempt to automate the menu. There has been no attempt to automate any of the processes for the customer or sale form. There is no automation above table level in terms of validation etc It is hard to see evidence of the scenario being taken into account. The evidence sits in band 2.
5	2	=Average(2,2,2)
Band	2	The evidence sits at the bottom end of band 2. There was minimal evidence to support band 2 in terms of trait 3. There were weaknesses in terms of criteria etc. in trait 2 and automation was minimal with no attempt to automate the two input forms at all. The evidence only just makes it into mark band 2
Mark	9	

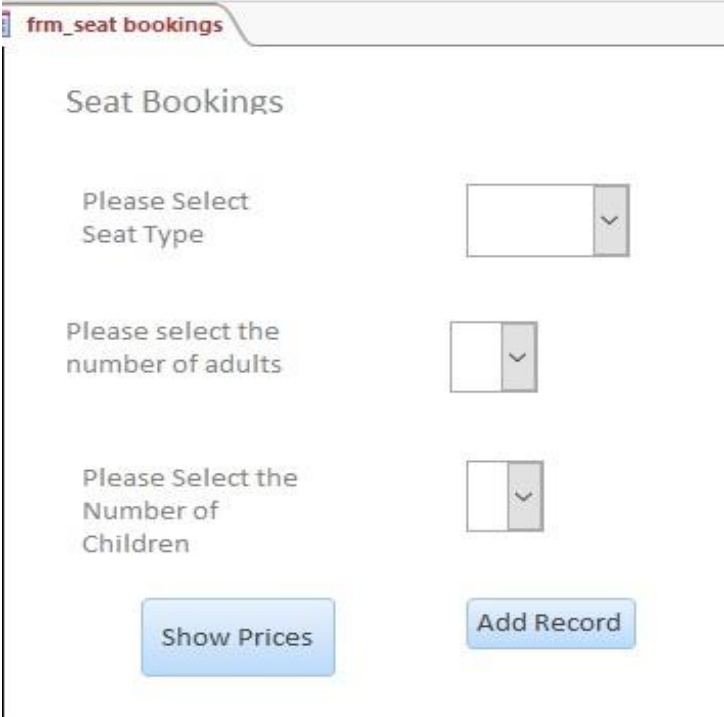
Activity 4 – Testing, Band 2, Marks 5

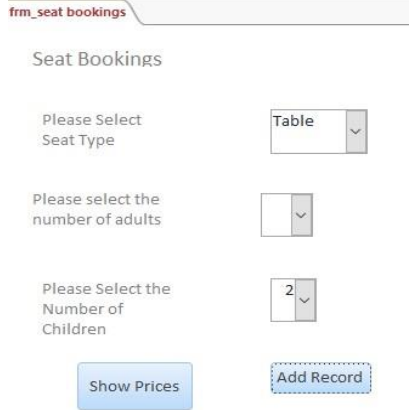
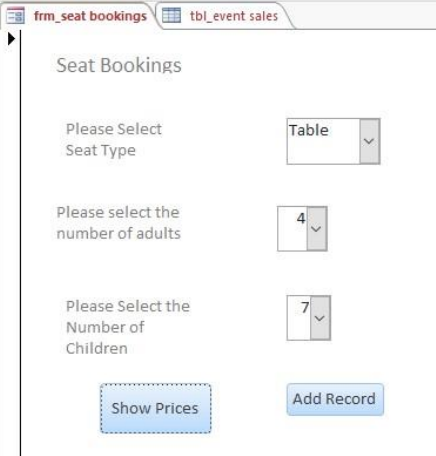
Input form to register a new customer testing

Test No	Type	Purpose of Test	Add suitable test data	Expected	Add screen print(s) of the results of this test carried out on your database. Ensure you show the test data used in the screen print(s)	Comments
1	R N	To ensure customer form opens at a new record	All Data input boxes: Null	I would expect the customer form to open with blank input boxes.		My customer form opened however customer information was already inputted in the data input boxes.
Type		Type of test is incorrect it is normal testing				
Data		Test data is incorrect. Should be opening form or clicking open form button on menu				
Expected		Expected results fine				
Actual		Actual results fine				
Comments		Has commented on the fact that the results are not what should happen but no attempt to amend or say how it could be amended				
2	R	To ensure a new customer cannot be saved without a customer forename	Forename: Null Surname: Bell Address 7 Godber Place Postcode: FE3 1LM Town: Dilmouth Telephone Number: +44 1154275981	I would expect a pop up requiring me to enter a customer forename.		
Type		Type of test correct				
Data		Test data is limited. Good to see that forename will be left null as this is what is being tested. However, supposed to be ensuring a new customer and this is an existing customer				
Expected		Expected results are relevant to the test.				
Actual		Good. Can clearly see data being used and the actual error message				

3	R	To ensure a new customer cannot be saved without a telephone number	Forename: Ian Surname: Bell Address 7 Godber Place Postcode: FE3 1LM Town: Dilmouth Telephone Number: Null	I would expect a pop up requiring me to enter a customer telephone number.		
Type		Correct				
Data		Good to see recognition that telephone number should be null. However, same weakness as test 2 in that the customer already exists and supposed to be testing a new customer				
Expected		Expected results are relevant to the test				
Actual		Can clearly see data being used and the actual error message. The error message is not suitable though.				
4	R N	To ensure a valid new customer can be saved correctly	Forename: Stan Surname: Holton Address: 9 Strawberry Lane Postcode: SR1 5LN Town: Liverpool Telephone Number: 02558 257234	I would expect the new customer to be automatically assigned a customer ID number and be added to the bottom of the customer list.		A new customer was added and assigned a customer ID however the ID number did not follow in numerical order.
Type		Type of test incorrect this is normal testing				
Data		Data is good other than telephone number, which clearly does not follow the format expected from studying the dataset. However, learner has already been penalised for that in activity 2, therefore do not penalise here				
Expected		Expected results are fine. Learner has used AutoNumber. Do not need them to specify actual number as they will have been testing during development so the number will not necessarily be 1 above last one. If they had used a number datatype then would expect them to say what the actual ID should be				
Actual		Quite weak. Should have shown table before addition of new customer so that the highest ID could have been seen. Then should have shown form with data added. Then what happens when save button is clicked (eg save message and clear form), even if they have not implemented a save message and cleared the form should still show what the form looks like after the save. Error messages could be better in places.				
Comments		Comments show learner has recognised the number is not in numerical order. Did not need to actually comment on this as this is fine. Or could have said this is because I have been testing during development and have deleted records I added during that time				

Input form to purchase seats if they are available

Test No	Type	Purpose of Test	Add suitable test data	Expected	Add screen print(s) of the results of this test carried out on your database. Ensure you show the test data used in the screen print(s)	Comments
1	R N	To ensure sale form opens at a new record	All data boxes: Null	I would expect the purchase a seat for to be blank when opened.		
Type	Type of test is incorrect. It is normal testing					
Data	Test data is incorrect. Should be opening form or clicking open form button on menu					
Expected	Expected results fine					
Actual	Actual results fine					

2	R X	To ensure a sale cannot be made where the number of adult tickets being purchased is below the acceptable range	Adult Tickets: 0 (Below 1)	I would expect a pop up box asking that an adult ticket is purchased.		No pop up box appears.
Type		Type of test is incorrect. It is extreme testing				
Data		Just below the acceptable range is good. However, should also have specified the other data that would be used on the form (Type and Child)				
Expected		Expected results are relevant				
Actual		Actual results are not correct. Learner has specified that the number of adult tickets would be 0. The combo box does not show 0				
Comments		Good to see problem has been spotted. Would have been better for learner to try and say how they would amend, even if they cannot do it eg I would add a range check on the combo box with the values 1 to 8 and the error message "There must be a minimum of 1 adult ticket purchased and a maximum of 8"				
3	R X	To ensure a sale cannot be made where the number of adult tickets being purchased is above the acceptable range	Adult Tickets 9 (Above 8)	I would expect a pop up box saying that the maximum number of tickets that can be purchased is 8.		No pop up box appears
Type		Type of test is incorrect. It is extreme testing				
Data		Just above the acceptable range is good. However, should also have specified the other data that would be used on the form (Type and Child)				
Expected		Expected results are relevant				
Actual		Actual results are not correct. Learner has specified that the number of adult tickets would be 9. The combo box shows 4				
Comments		Good to see problem has been spotted. Would have been better for learner to try and say how they would amend, even if they cannot do it eg I would add a range check on the combo box with the values 1 to 8 and the error message "There must be a minimum of 1 adult ticket purchased and a maximum of 8"				

4	R N	To ensure the relevant event and customer information appears when an event and customer has been selected/input	Please select seat type: Table Please select the number of adult: 2 Please select the number of children: 2	I would expect the sale to be added to the sales table.		The data is not added to the sales table.
Type		Type of test is incorrect. It is normal testing				
Data		Nice to see specified test data for the form but it is irrelevant. The test is to test customer and event information appears. The learner's form does not have an option to select a customer or event. This should have been noticed, but candidate should still have specified what CustomerID and EventID would be used				
Expected		Expected results are not correct for the test being carried out. Should have said what information about the customer and event should appear on the form eg if CustomerID 1 was the test data for customer then would expect them to realise the surname, forename and whatever else they think appropriate to show about the customer on the form would appear. Same applies to EventID. Even if learners have not implemented SeatPrice features, they would get better marks in testing if they noted what was wrong and talked about it in the final column				
Actual		Actual results are not relevant. Learner should have shown form				
Comments		Error misidentified. Learner should have been talking about the form needing a combo box to select a customer and event so that they could be selected and could have gone on to say how they would achieve that. They should also have said fields were missing eg surname				
5	R N	To ensure all costs are correct including <ul style="list-style-type: none"> • Cost per seat • Total cost for adults • Total cost for children • Overall cost 	Please select seat type: No Table Please select the number of adults: 3 Please select the number of children 2	I would expect a table to be displayed featuring the total price of the tickets as well as the 10% child discount.		A table is displayed, and it does feature the prices of the tickets including the 10% child discount however it shows the price for every combination.
Type		Type of test is incorrect. It is normal testing				
Data		Good test data for the form. Should also have specified the calculations used as test data or specified them in the expected results column				
Expected		Poor expected results. Should have specified what the Cost Per Seat would be for a table seat. Should also have shown the calculations and expected results for the other 3 as they are relatively straight-forward to determine i.e. do not need to study a lot of records in order to get the results eg Total cost for adults = Cost per Seat * Number Adults = 29.00 * 3 = £87.00 etc.				
Actual		Actual results are not relevant. Learner should have shown form				
Comments		Learner has realised there is a problem but has shown no understanding of what the problem actually is				

6	R N	To ensure a valid sale saves correctly	Please select seat type: Table Please select the number of adults: 2 Please select the number of children: 3	I would expect the sale to be added to the sales table.	<table border="1"> <thead> <tr> <th>SeatSaleID</th> <th>NumAdults</th> <th>NumChild</th> <th>SeatPrice</th> <th>SeatTypeID</th> <th>CustomerID</th> </tr> </thead> <tbody> <tr><td>62</td><td>2</td><td>6</td><td>£20.00</td><td>2</td><td>59</td></tr> <tr><td>63</td><td>2</td><td>2</td><td>£20.00</td><td>2</td><td>57</td></tr> <tr><td>64</td><td>2</td><td>4</td><td>£20.00</td><td>2</td><td>60</td></tr> <tr><td>65</td><td>1</td><td>1</td><td>£20.00</td><td>2</td><td>62</td></tr> <tr><td>66</td><td>1</td><td>3</td><td>£20.00</td><td>2</td><td>61</td></tr> <tr><td>7</td><td>2</td><td>2</td><td>£29.00</td><td>1</td><td>63</td></tr> <tr><td>8</td><td>2</td><td>2</td><td>£29.00</td><td>1</td><td>66</td></tr> <tr><td>9</td><td>1</td><td>2</td><td>£20.00</td><td>2</td><td>65</td></tr> <tr><td>*</td><td>0</td><td>0</td><td>£0.00</td><td></td><td></td></tr> </tbody> </table>	SeatSaleID	NumAdults	NumChild	SeatPrice	SeatTypeID	CustomerID	62	2	6	£20.00	2	59	63	2	2	£20.00	2	57	64	2	4	£20.00	2	60	65	1	1	£20.00	2	62	66	1	3	£20.00	2	61	7	2	2	£29.00	1	63	8	2	2	£29.00	1	66	9	1	2	£20.00	2	65	*	0	0	£0.00			The data has not been added to the sales.
SeatSaleID	NumAdults	NumChild	SeatPrice	SeatTypeID	CustomerID																																																													
62	2	6	£20.00	2	59																																																													
63	2	2	£20.00	2	57																																																													
64	2	4	£20.00	2	60																																																													
65	1	1	£20.00	2	62																																																													
66	1	3	£20.00	2	61																																																													
7	2	2	£29.00	1	63																																																													
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9	1	2	£20.00	2	65																																																													
*	0	0	£0.00																																																															
Type	Type of test is incorrect. It is normal testing																																																																	
Data	Good test data for the form the learner has but needed CustomerID, EventID																																																																	
Expected	Has specified correct table but has not discussed the SeatSaleID and how that would increment																																																																	
Actual	Table before attempt at save should be shown, then form with data, the what actually happens when save button clicked (eg messages, clearing of form – even if not implemented should still show form after save button clicked), then should show table with results. The screenprint the learner has included is the final screenprint. There are 3 missing																																																																	
Comments	Has mentioned there is a problem but no discussion of it																																																																	

Assessment focus	Band 0	Band 1	Band 2	Band 3	Max Marks
Activity 4: Testing	0	1-4	5-8	9-12	12
	No rewardable material	<p>Testing is too narrow to confirm a working solution, including limited normal, erroneous and/or extreme data.</p> <p>Expected results are generic or mostly inaccurate. Test data may not be present.</p> <p>Test results prove that that the database operates under some normal circumstances relevant to the scenario.</p> <p>Test result comments show a limited understanding of any errors that were found.</p>	<p>Testing is adequate to confirm a working solution, including some normal, erroneous and/or extreme data.</p> <p>Expected results are mostly accurate and based on identified test data, but may lack detail.</p> <p>Test results prove that that the database operates under some normal circumstances and that the database can cope with some erroneous and extreme data relevant to the scenario.</p> <p>Test result comments show partial understanding of any errors that were found.</p>	<p>Testing is thorough, including a range of normal, erroneous and extreme data.</p> <p>Expected results are specific and accurate based on identified test data.</p> <p>Test results prove that that the database operates under all circumstances relevant to the scenario.</p> <p>Test result comments show a clear understanding of any errors that were found, and how they were fixed.</p>	

Trait	Band	Comments
1	2	The testing does not show a working solution. Can see customer form works. Sale form does not. This would not necessarily limit the learner to band 1 depending on the detail of the rest of the traits
2		Test data is identified (though not always correct) for all tests. Some expected results are sensible though some could be clearer
3		Can see the database copes with some of the expected validation and that it does operate under some normal circumstances in terms of the customer. Learner has misidentified some of the test types, but this should never affect the mark awarded as they are still carrying out that type of test
4		Results have been shown though there are weaknesses in some of the evidence eg the saves. Learners has commented on some of the problems but does not show understanding of why there are errors and some of the error messages are weak.
Band	2	Holistically, this is band 2 evidence. Can see they understand the concept of testing. Gets the same marks as script A for different reasons. Test data is more specific but not always correct. Comments on problems found
Mark	5	

Activity 5 - Evaluation, Band 2, Marks 6

Evaluate these requirements against the Database Relationship Screenprint (ERD) you created in Activity 1

Requirements	Achieved	Evaluative comments including any changes you made
<p>The database will record information about:</p> <ul style="list-style-type: none"> • the events • the customers • event sales 	<p>Yes</p>	<p>When I register a new customer they are automatically added to the customer table however when they are automatically assigned a customerID the number they are assigned does not follow on in a numerical order. The database does hold information about the events such as the type of seat (table or no table). This information is displayed in a table. The Customer data is displayed in order. The database however fails to save the bookings made using the bookings form. The use of Presence checks ensures that all data is inputted correctly. <i>This is not really what they should be talking about here. This should be about their structure, normalisation, keys, reasons why they have chosen that structure, any changes made etc. This evidence will be considered</i></p> <p>I have used a menu form to connect all the other forms and queries together. This improves usability as it is easy to follow. If I were to do the assignment again, I would spend more time adding instructions to the menu screen so that the user has a clear idea of what each feature does as my labelling on the buttons is not very clear. <i>Again, irrelevant to what they are supposed to be evaluating here.</i> I have used appropriate validation rules such formats to ensure that all data is inputted correctly and is consistent. <i>Vague</i> I had difficulty in separating the data as I was unsure that if town was the town where the customer lived or the town where the event took place <i>Good point.</i> Eventually I decided that town referred to where the customer lived as an address and postcode were given but no town. <i>Could have been better explained/expanded upon to say that when the dataset is studied clearly shows town belongs to customer otherwise 1 event would end up with many different towns associated to it</i></p> <p>The event sales table is the junction table as shown in my Database <i>what does this mean? Vague</i></p> <p>Relationship Screen Prints which I created in Activity 1. The event sales table will home information about the customer, this means that the customer ID field will be a foreign key on the event sales table and will be shown on the ERD as a one to many relationship as one customer can book many events. <i>This is correct and shows some understanding of technical concepts.</i> The details of the events which are stored on the events table will also be included on the events sales table. The events sale ID field will be included on the events sales table as another foreign key. <i>Same applies here though interesting when matched with ERD. The learner does not have the EventID in the event sales table. This could be potentially flagged as malpractice if other learners in the same centre discuss the same thing here and it does not match their solution.</i> This also should be shown as a one to many relationship as one event can receive many sales (bookings). I found that when I was setting up my tables, the relationships were being set up automatically. When I would use a lookup wizard to find data from another table such as the customerID on the event sales table. I would set up the lookup wizard so that it would find the correct customer ID from the customers table <i>vague, could have expanded to say how this helps user – provides drop down boxes automatically</i></p>

Evaluate this requirement against the table validation you used in Activity2

Requirement	Achieved	Evaluative comments including any changes you made
There are two types of seat: seats without tables and seats with tables.	Yes	<p>The use of a drop down box to choose between the two means that the customer has to choose either one or two seats as they do not have the ability to input a different amount. This ensures that all the data inputted into the data base is accurate.</p> <p>Originally I was going to use a text box where the user could write in the type of table which they wanted however I felt that this could be confusing as the user may not be aware of what the different categories were therefore they may not be able to input the correct data into the form. This could lead to incorrect data being inputted into the table, this would mean that the data being stored by the database would be incorrect and the sale may not be processed correctly.</p> <p><i>Good discussion. Discusses user cannot input a different amount and how that makes the data accurate. Good reasoning about why a combo used rather than text box. Well explained</i></p> <p>I could have included a message which would appear if an invalid entity was entered into the seats type selection box. <i>Should have expanded to say how this would help the user</i></p>
There must be at least one adult seat purchased with every sale. A sale cannot exceed eight tickets.	No	<p>I have been unable to set a check which only allows a sale to be processed if at least one adult seat has been purchased. <i>Good that this is honest.</i> I have however managed to ensure that a sale cannot exceed eight tickets through limiting how many tickets a user can attempt to book through requiring users to book their tickets through a drop down list. This drop down list removes the ability of a customer entering their own number and therefore ensures that no sale exceeds eight tickets. <i>Good, would have been better to say how this helps the user</i></p> <p>If I had more time or was able to do the assignment again I would assign a query which checks to ensure that at least one adult ticket has been added before allowing the sale to be confirmed. <i>Query is not sensible.</i> I will also use a range check to ensure that a sale cannot exceed eight tickets. However this is not necessary as the use of a drop down list removed the ability to type a number. <i>Feels like added for the sake of it having just said that this was a good feature</i></p>

Evaluate these requirements and the user experience against the forms you created in Activity 3

Requirement/Experience	Achieved	Evaluative comments including any changes you made
An input form to register a new customer	Yes	<p>I have been able to successfully create an input form which records customers. The customers are automatically assigned a new customer ID number and are added to the bottom of the customers table. However I have been unable to have the customerID auto generate a number which follows on from the last in a numerical order. The later entries all follow on in a numerical order however the number difference between the last entry on the data provided with this assignment and my own additional entries has missed out 3 numbers. This is an error that although I have identified I have failed to identify its cause and therefore were unable to find a solution. <i>Nice to see learner has noticed though this is not a problem. It does not matter if AutoNumber fields do not follow on in sequence. Learners may have added/deleted records and not expected to have to keep clearing the tables and importing again</i></p>
An input form to purchase seats if they are available. <ul style="list-style-type: none"> It should show the relevant event, customer and seat sale information 	Partial	<p><i>It is good that the learner is honest that this has not been met fully and that it was above their skill level in places. If learners cannot implement features it does not restrict marks – it is the evaluation of the solution that attracts the marks</i></p> <p>I created a seat booking form, the form was successful in that the use of Macros allowed a user to set up the combinations which they wanted to book such as table or no table and the number of how many tickets they were</p>

<ul style="list-style-type: none"> ● In addition is should show the total cost for adult tickets, the total cost for child tickets and the overall cost ● Children’s seats are 10% cheaper than the adult seat price ● There are 56 seats without tables ● There are 40 seats with tables 		<p>wishing to book. However, the form was unsuccessful in saving the data to the table as well as being un successful in ensuring whether the seats were available. When the user clicks view price on the seat booking form, a table with a list of all the seat – ticket combinations appeared along with their price. I was able to make price deduct the 10% discount the child ticket received. <i>Not really a good solution but clearly is related to scenario</i></p> <p>I was disappointed that I was unable to work out how to include a macro in to the form which would search the table and report back whether or not the seat was free. I was also unable to make the sale be confirmed in the table, this lead to errors on my report page as sales were not accurate. However as I was able to make the price reductions of 10% for child tickets the price charged to the customer is correct.</p> <p>I was unable to include anywhere in my database that the number of seats were limited to 56 seats without tables and 40 seats with tables. I failed to understand where this should be included. I assume this would have been a range check validation rule included on the seat types table.</p> <p>I am confident that my database meets the needs of the user however I do feel that there are a few issues which need to be improved on. I feel that the basic framework of the database is there however further work needs to be carried out to ensure that the database works as expected such as ensuring that the correct data is being saved in the correct table.</p>
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Assessment focus	Band 0	Band 1	Band 2	Band 3	Band 4	Max. mark
Activity 5: Evaluation	0	1-3	4-6	7-9	10- 12	12
	No rewardable material	<p>Superficial understanding of relevant technical concepts shown with some inaccuracies.</p> <p>Limited or unsupported justification of:</p> <ul style="list-style-type: none"> changes made during the development and testing process the relational database structure selected about the quality, performance and usability of the database. <p>Limited links between aspects of the solution and the requirements of the scenario.</p> <p>Technical vocabulary is used but it is not used appropriately to support arguments.</p>	<p>Some accurate and relevant understanding of technical concepts shown.</p> <p>Some valid justification, which may lack support, of:</p> <ul style="list-style-type: none"> changes made during the development and testing process the relational database structure selected the quality, performance and usability of the database. <p>Some logical links between aspects of the solution and the requirements of the scenario but may lack clarity.</p> <p>Mostly accurate technical vocabulary is used to support arguments.</p>	<p>Mostly accurate and detailed understanding of relevant technical concepts shown.</p> <p>A valid and mostly supported justification of:</p> <ul style="list-style-type: none"> changes made during the development and testing process the relational database structure selected. quality, performance and usability of the database. <p>Makes some logical coherent links between aspects of the solution and the requirements of the scenario.</p> <p>Accurate technical vocabulary is used to support arguments.</p>	<p>Accurate and detailed understanding of relevant technical concepts shown throughout.</p> <p>A valid and fully supported justification of:</p> <ul style="list-style-type: none"> changes made during the development and testing process the relational database structure selected quality, performance and usability of the database. <p>Makes logical coherent links between aspects of the solution and the requirements of the scenario throughout.</p> <p>Fluent and accurate technical vocabulary is used to support arguments.</p>	

Trait	Band	Comments
1	2	<ul style="list-style-type: none"> There is some accurate and relevant understanding of technical concepts shown. It is superficial and inaccurate in places but not throughout. Some is better Limited evidence in terms of justification of structure of database, changes made during development is also limited, Quality and usability is better There are some logical links in terms of scenario The technical language is weak in some places but better in others <p>Overall there is enough evidence for top of mark band 2. Activity 1 evaluation is weaker</p>
2		
3		
4		
Band	2	
Mark	6	