

Unit 2 – Creating Systems to Manage Information May 2019

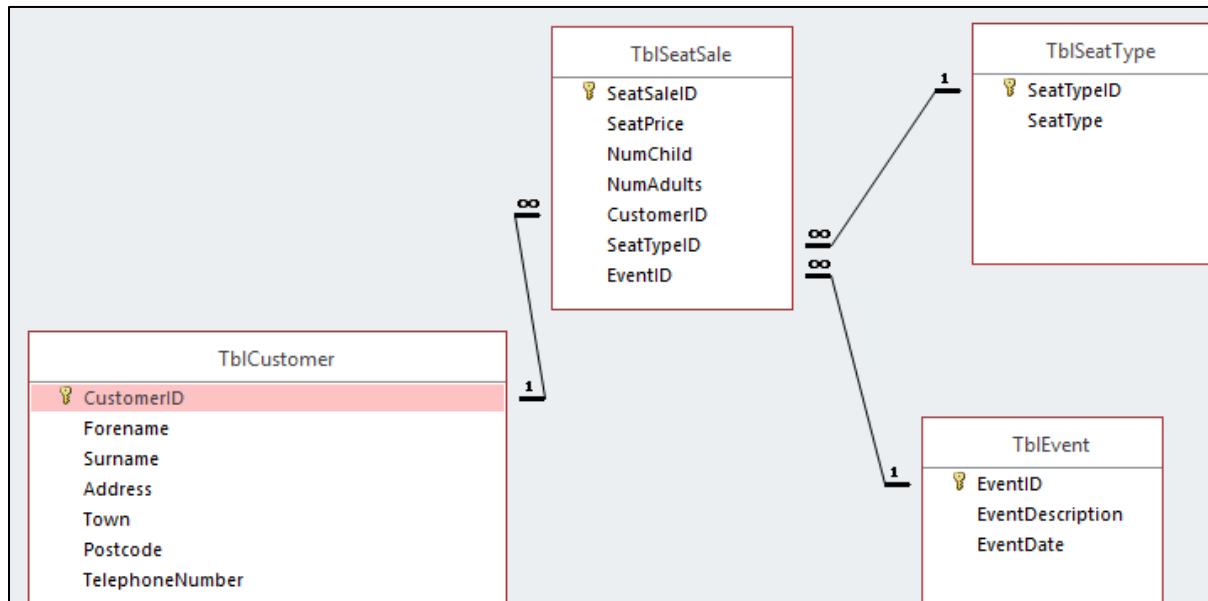
Script A

Activity	Band	Mark	Max Mark
1 – Database relationship screenprint	4	8	8
2 – Tables	4	7	8
3 – Interface	2	13	26
4 – Testing	2	5	12
5 – Evaluation	1	1	12
	Total	34	66

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Activity 1 – Database Relationship Screenprint, Band 4, Marks 8



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	4	<ul style="list-style-type: none"> All fields are in the correct tables. Correctly normalised with no data redundancy
2	4	<ul style="list-style-type: none"> Correct relationships and relationship types throughout
Band	4	The learner has fully normalised the data set and has provided an accurate solution
Mark	8	

Activity 2 – Table Structures and Validation, Band 4, Marks 7

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
EventID	AutoNumber
EventDescription	Short Text
EventDate	Short Text

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

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

Field Name	Data Type
SeatTypeID	AutoNumber
SeatType	Short Text

Trait 1

- A recognised naming convention has been used throughout

Trait 2

- Learner has identified all primary and foreign keys from their ERD in Activity 1

Trait 3

- EventDate should be Date/Time. Can see that this has been changed to Date/Time further on in this activity
- NumChild and NumAdults should be Number
- The rest are accurate

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

The screenshot shows the Microsoft Access interface for the 'Tbl_Customer' table. The table structure is as follows:

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

The 'Town' field is highlighted with a red border. Below the table structure, the 'General' tab of the 'Lookup' property sheet is visible, showing the following properties:

Field Size	20
Format	
Input Mask	
Caption	
Default Value	
Validation Rule	Is Not Null
Validation Text	Please enter the Town
Required	No
Allow Zero Length	Yes
Indexed	No
Unicode Compression	No
IME Mode	No Control
IME Sentence Mode	None
Text Align	General

Forename	Surname
Address	Post Code
Telephone Number	Customer ID
	Seat Type ID
Event ID	Event Description

Trait 4

- Validation rule and validation text are suitable
- Town is a suitable field to include a presence check on
- Some other suitable presence checks listed
- Slight weakness in that some major presence checks are not present eg NumAdults. Also don't know if learner is talking about primary or foreign keys in terms of Customer ID, Seat Type ID and Event ID

Length Checks

- Add screenprints of *three* length checks

Field Name	Data Type
Postcode	Short Text
TelephoneNumber	Short Text

General Lookup

Field Size	8
------------	---

Field Name	Data Type
Address	Short Text
Town	Short Text
Postcode	Short Text
TelephoneNumber	Short Text

General Lookup

Field Size	20
------------	----

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

General Lookup

Field Size	50
------------	----

Trait 4

- Postcode has a length of 7 in the data file. 8 is not extreme
- Appropriate field size for Town and Event Description

Value Lookups

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

Field Name	Data Type
SeatSaleID	AutoNumber
SeatPrice	Currency
NumChild	Short Text
NumAdults	Short Text

Property	Value
Display Control	Combo Box
Row Source Type	Value List
Row Source	1;2;3;4;5;6;7
Bound Column	1
Column Count	1
Column Heads	No
Column Widths	2.54cm
List Rows	16
List Width	2.54cm
Limit To List	Yes

Trait 4

- Main one to look for is SeatType. Learner has used a list box for this, which is appropriate
- Learners do not have to include NumAdults and NumChild as value lookups and will not be penalised if they have not. Both are appropriate as value lookups. The range for NumAdults is suitable could be either 1 to 7 or 1 to 8. The range for NumChild is fine could be either 1 to 7 or 0 to 7. Both have limit to list set to yes so could be used as range checks also.

Field Name	Data Type
SeatSaleID	AutoNumber
SeatPrice	Currency
NumChild	Short Text

Property	Value
Display Control	Combo Box
Row Source Type	Value List
Row Source	1;2;3;4;5;6;7
Bound Column	1
Column Count	1
Column Heads	No
Column Widths	2.54cm
List Rows	16
List Width	2.54cm
Limit To List	Yes

Field Name	Data Type
SeatTypeID	AutoNumber
SeatType	Short Text

Property	Value
Display Control	List Box
Row Source Type	Table/Query
Row Source	Table, No Table
Bound Column	1

Table Lookups

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

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

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

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

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

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

Property	Value
Display Control	Combo Box
Row Source Type	Table/Query
Row Source	SELECT [Tbl_Event].EventID, [Tbl_Event].EventDescription FROM Tbl_Event
Bound Column	1
Column Count	2
Column Heads	No
Column Widths	2.54cm;2.54cm
List Rows	16
List Width	5.079cm
Limit To List	No

Trait 4

- Table lookups present for all of the learner's foreign keys. However, slight weakness as limit to list has not been set to Yes

Range Checks

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

NumAdults	Short Text
CustomID	Number
Validation Rule	>=1
Validation Text	Please enter the number of Adults
Required	No

NumChild	Short Text
NumAdults	Short Text
Default Value	
Validation Rule	<=7
Validation Text	Please enter the number of children

Trait 4

Neither of these is suitable alone. However, with the value lookup evidence (including limit to list), the ranges are fine

Format Checks

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

Postcode	Short Text
TelephoneNumber	Short Text
Field Size	8
Format	
Input Mask	>LL00\,0LL;0;_
Caption	

TelephoneNumber	Short Text
Field Size	14
Format	
Input Mask	*+44 *9099999999;0;@
Caption	

Trait 4

- Both are suitable

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>	

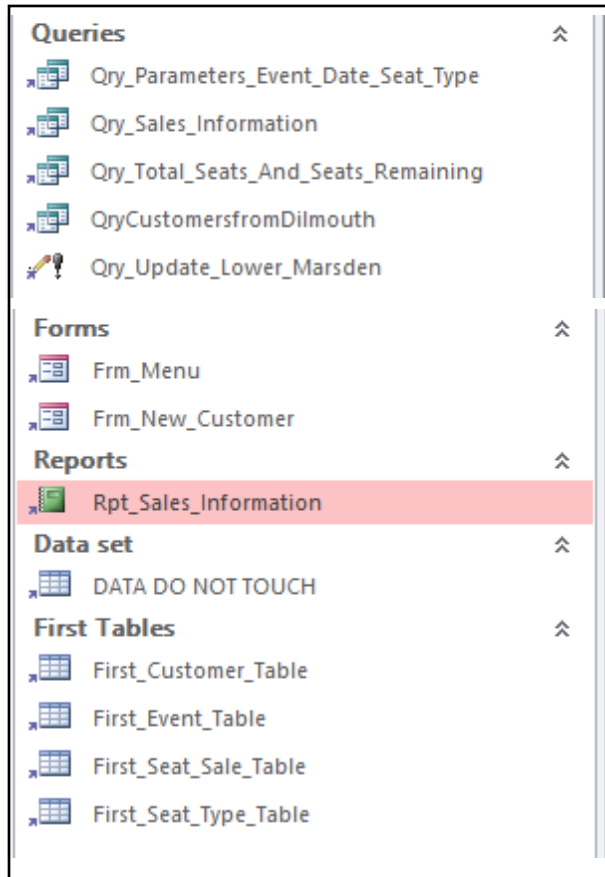
Trait	Band	Comments
1	4	<ul style="list-style-type: none"> A recognised naming convention has been used for both tables and fields
2	4	<ul style="list-style-type: none"> All primary and foreign keys have been identified (matches their Activity 1)
3	3	<ul style="list-style-type: none"> Learner has not used Number for NumAdults and NumChild, one data type error
4	3	<ul style="list-style-type: none"> The learner has included accurate validation rules for most of the fields that require validation. Table lookups should have been set to Yes and there was a slight weakness in terms of presence checks
Band	4	Overall there is enough evidence to place the learner in band 4. The weaknesses in terms of the data type, presence checks and table lookups prevent full marks.
Mark	7	

Activity 3 – Interface and Functionality, Band 2, Marks 13

Object Names

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

Ensure the names are not truncated



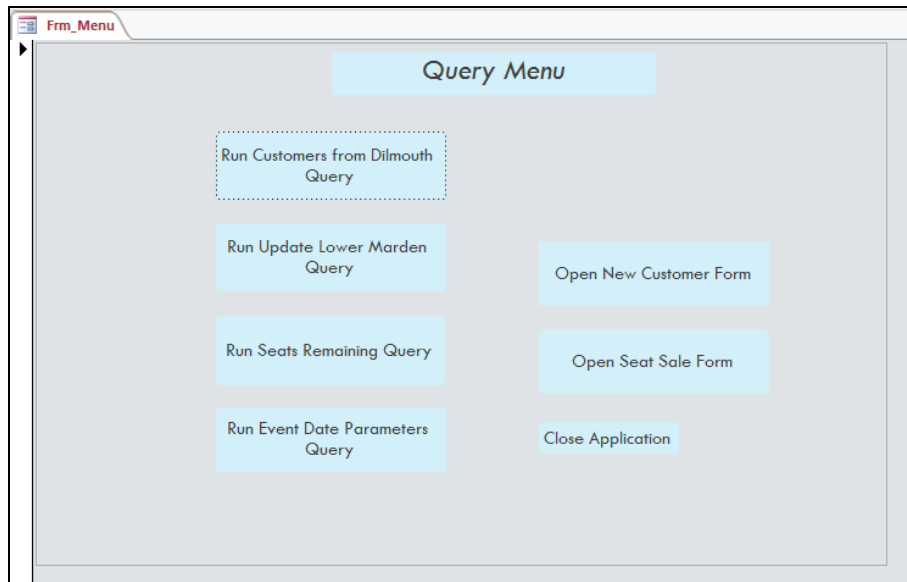
Trait 1

- It appears the candidate does not have all of the objects (sale form missing). However, that can be seen further in this activity. All objects are present

Trait 3

- All objects have names that are easy to maintain. Slight inconsistency with QryCustomersfromDilmouth compared to the others

Menu



Trait 1

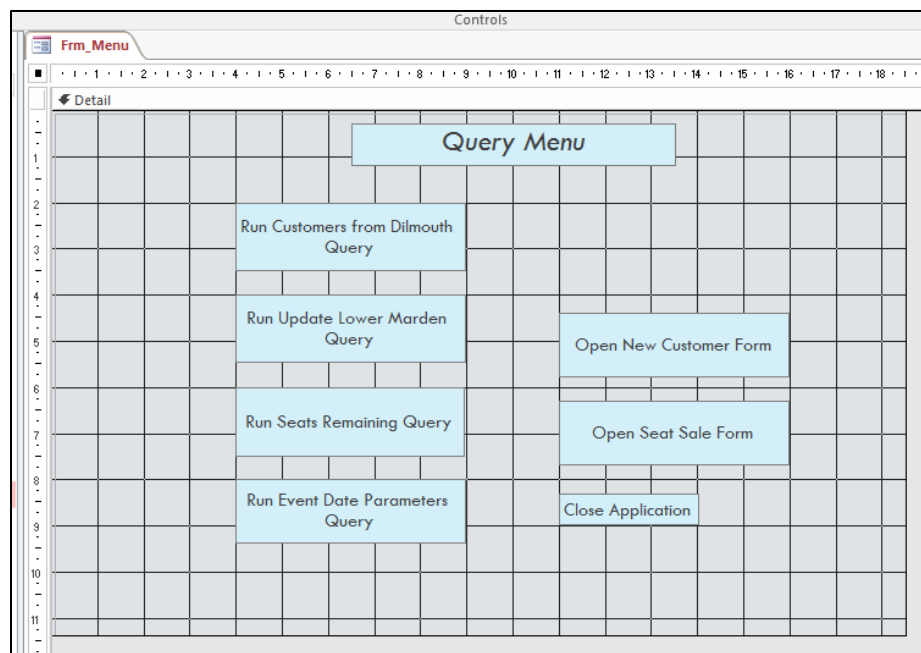
- Menu includes most of the buttons you would expect to see. The button for the report is missing

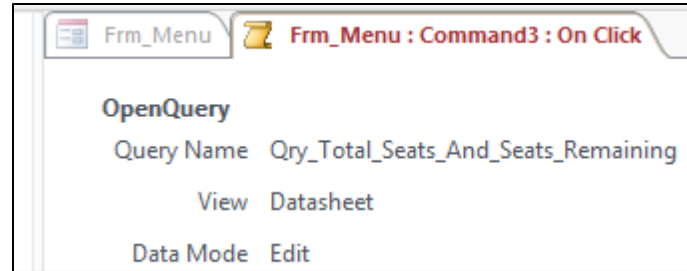
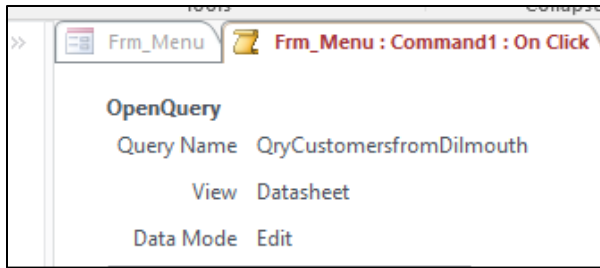
Trait 3

- There is an attempt at a house style. All buttons appear to be the same size other than the Close button. The title is not particularly useful though

Trait 4

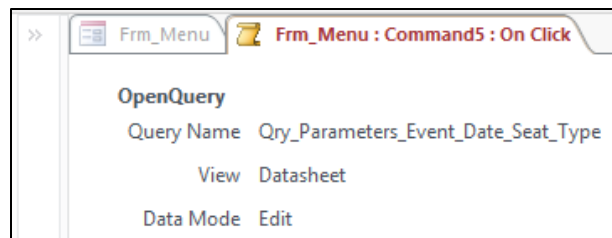
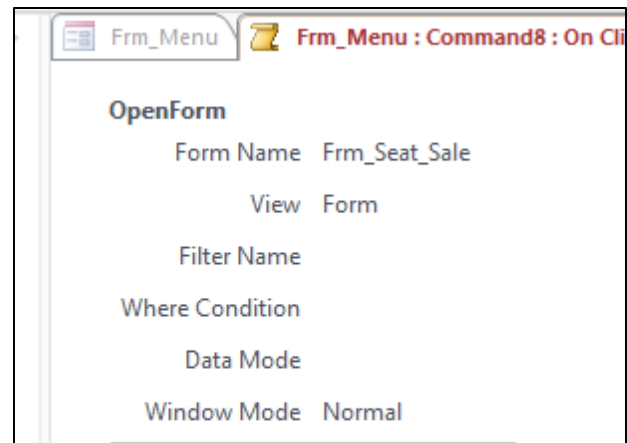
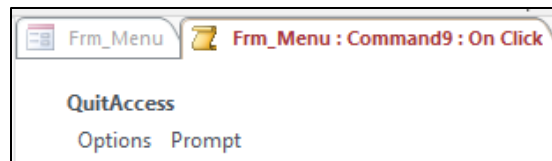
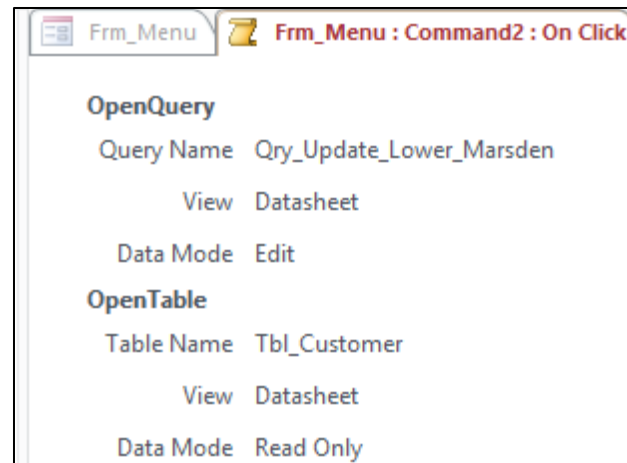
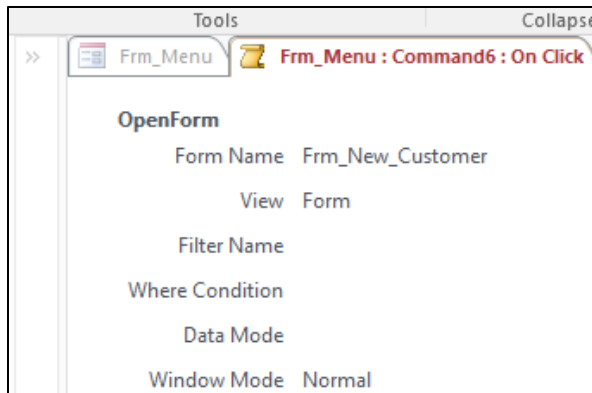
- Each button on menu has been automated – opening relevant object





Trait 4

- Each button on menu has been automated – opening the relevant object. The report is still missing



Input form to register a new customer

```

OnError
    Go to Next
Macro Name
RunMenuCommand
    Command SaveRecord
If [MacroError]<>0 Then
    MsgBox
        Message "New Customer Saved"
        Beep Yes
        Type None
        Title
    MsgBox
        Message =[MacroError],[Description]
        Beep Yes
        Type None
        Title
End If
    
```

Trait 3

- Details have been hidden as could possibly identify candidate
- Form reflects purpose
- Title is useful
- TelephoneNumber is not suitable as a label
- Field widths are good, can see learner has spent time resizing them
- No user aids eg asterisks, instructions etc
- CustomerID has not been disabled

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

- The form does not open for data entry
- The CustomerID is half automated. It would determine the next CustomerID, however it would not assign it to the primary key. The method that this candidate has used would require some further action in order to assign it to the key eg setValue in macro. Not sure why learner would want to use this method when data type in Activity 2 was AutoNumber
- Attempt made to automate the save but it would not work properly. The save message would only appear if there was an error. Table level validation would show error messages through this macro

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.

Sale Menu

SeatSaleID

CustomerID

EventID

SeatTypeID

NumAdults

NumChild

SeatType

SeatPrice

Total Adults

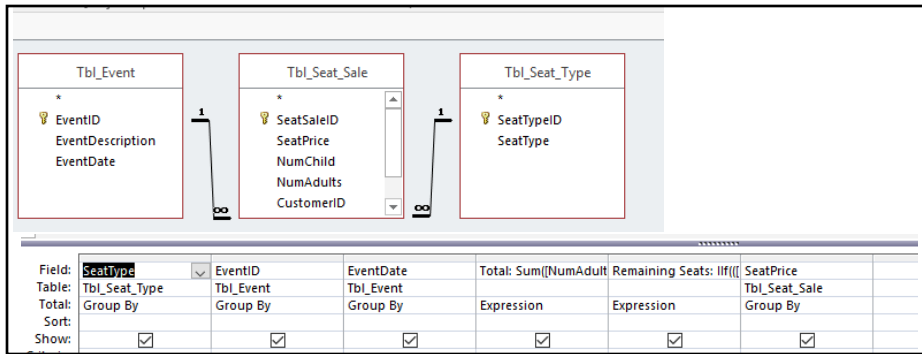
Total Child

Total Cost

Trait 3

- Form does not fully reflect purpose. No fields to show the relevant event, customer info etc
- Title could be better
- Labels are not useful
- Combo boxes for selection are useful
- SeatSaleID has not been disabled
- There are no instructions for use, no attempt to use suitable field widths, no asterisks etc
- There is none of the relevant event and customer information shown eg surname.

SeatSaleID	SeatSaleID
CustomerID	CustomerID
EventID	EventID
SeatTypeID	SeatTypeID
NumAdults	NumAdults
NumChild	NumChild
SeatType	SeatType
SeatPrice	SeatPrice
Total Adults	$=[\text{NumAdults}] * [\text{SeatPrice}]$
Total Child	$=([\text{NumChild}] * [\text{SeatPrice}]) - ([\text{NumChild}] * [\text{SeatPrice}] * 0.1)$
Total Cost	$=[\text{Total_Adults}] + [\text{Total_Child}]$



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

SeatType	EventID	EventDate	Total	Remaining	SeatPrice
No Table	1	20/12/2019	34	22	£20.00
No Table	2	21/12/2019	54	2	£20.00
No Table	3	22/12/2019	64	-8	£20.00
Table	1	20/12/2019	39	1	£29.00
Table	2	21/12/2019	47	-7	£29.00
Table	3	22/12/2019	60	-20	£29.00

```

OnError
    Go to Next

Macro Name

RunMenuCommand
    Command SaveRecord

If [MacroError]<>0 Then
    MsgBox
        Message =[MacroError].[Description]
        Beep Yes
        Type None
        Title

End If
  
```

There is evidence of the correct calculations for total cost for adults, total cost for children and overall cost

There is no evidence that the form would open for data entry or that the SaleID would generate automatically

There is an attempt to automate the save process. It is a basic save (macro behind using the wizard to add a save button). It would allow table level validation to kick in. At this point an assumption can be made that a range check was applied in activity 2. There is no need to look for further evidence of this if there is evidence of a save taking place

The save process would not cancel the save in all circumstances i.e only 56 non-table seats and 46 table seats. The candidate has created a query that appears to determine remaining seats though the criteria is truncated and it is not used anywhere

The save process would not produce a save message nor move to a new record

Queries

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

The screenshot shows the Query Design view for 'QryCustomersfromDilmouth'. The 'First Customer Table' is selected. The design grid is as follows:

Field:	Forename	Surname	TelephoneNumber	Town
Table:	First Customer Table	First Customer Table	First Customer Table	First Customer Table
Sort:				
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:				"Dilmouth"
or:				

The screenshot shows the Query Results view for 'QryCustomersfromDilmouth'. The results are sorted by Forename. The data is as follows:

Forename	Surname	TelephoneNumber	Town
Georgina	Tate	+44 2481372008	Dilmouth
Alan	Gray	+44 2031642975	Dilmouth
David	Neilson	+44 2261898476	Dilmouth
Siobhan	McAdam	+44 1937068052	Dilmouth
Kyle	Jenkins	+44 1761141490	Dilmouth
Natalie	Dixon	+44 1836327458	Dilmouth
Gordon	Goodwin	+44 1667687652	Dilmouth
Sam	Lucas	+44 1509251415	Dilmouth
Brian	Weston	+44 2277324988	Dilmouth
John	Cook	+44 3022815481	Dilmouth
Barry	Mckay	+44 1624158741	Dilmouth
Peter	Thompson	+44 1237817335	Dilmouth
Emily	Williams	+44 2586901512	Dilmouth
Yvonne	Singleton	+44 3329680039	Dilmouth
Tina	Wharton	+44 3756843817	Dilmouth
Faraz	Khan	+44 3956339800	Dilmouth
Alan	Rawlings	+44 3811203596	Dilmouth
Nicholas	Hartley	+44 4158098588	Dilmouth
Julie	Butler	+44 9826032072	Dilmouth
Michael	Palmer	+44 4269278315	Dilmouth
Paul	Jackson	+44 4398444125	Dilmouth
Charlotte	Spencer	+44 4556687468	Dilmouth
Charlotte	Perry	+44 5665685720	Dilmouth
John	Skelton	+44 7976655256	Dilmouth
Gordon	Hughes	+44 8250636112	Dilmouth
Rachel	Macnamara	+44 5018458428	Dilmouth
*			

Trait 1

- All expected fields are present

Trait 2

- Criterion correct for Town
- Missing the multiple sort
- 1 out of 3 correct

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

The screenshot shows the Query Design view for 'Qry_Update_Lower_Marsden'. The 'Tbl_Customer' table is selected. The design grid is as follows:

Field:	Town
Table:	Tbl_Customer
Update To:	"Lower Marsden"
Criteria:	"Lower Marsden"
or:	

Trait 1

- The field name expected is present

Trait 2

- Update To is correct
- Criterion is correct
- 2 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

Field:	EventDescription	Forename	Surname	Postcode	EventDate	SeatType
Table:	Tbl_Event	Tbl_Customer	Tbl_Customer	Tbl_Customer	Tbl_Event	Tbl_Seat_Type
Sort:						
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:					[Enter Date]	[Enter Seat Type]
or:						

Trait 1

- Fields present are relevant. Good to see that EventDate and EventType are not being displayed. Reading requirements well

Trait 2

- Parameter correct for EventDate
- Parameter correct for Seat Type
- Slight weakness in that join table is missing from grid. Tables used have no relationship to each other as it stands
- 2 out of 2 correct

(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	EventDescription	Adult_Seats_Sold: NumAdults	Child_Seat_Sold: NumChild
Table:	Tbl_Event	Tbl_Event	Tbl_Seat_Sale	Tbl_Seat_Sale
Total:	Group By	Group By	Sum	Sum
Sort:				
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:	1 Or 2 Or 3			
or:				

Total: ([Adult_Seats_Sold]+[Child_Seat_Sold]) Remaining Seats: 96-([Total])

EventID	EventDescription	Adult_Seats_Sold	Child_Seat_Sold	Total	Remaining Seats
1	Sing A Long Christmas Extravaganza	35	32	67	29
2	The Polar Express Extravaganza	37	44	81	15
3	Home Alone Extravaganza	36	46	82	14

Trait 3

- Good user input messages for parameters

Trait 1

- All fields relevant

Trait 2

- Calculation to find total adult seats sold correct
- Calculation to find total child seats sold correct
- Two calculations used to determine remaining seats. Would produce correct total
- 3 out of 3 correct

Trait 3

- Generated fields have good names

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.

The screenshot shows the design view of a report titled 'Sales Information Report'. The report is organized into sections: Report Header, Page Header, Detail, Page Footer, and Report Footer. The Report Header contains the title 'Sales Information Report'. The Page Header contains the fields: Forename, Surname, NumAdults, NumChild, SeatPrice, TotalSeats, and Sales Income. The Detail section contains the same fields. The Page Footer contains a date field with the formula '=Now()' and a page number field with the formula '="Page " & [Page] & " of " & [Pages]'. The Report Footer contains two summary fields: 'Total Seats' with the formula '=Sum([TotalSeats])' and 'Total Income £' with the formula '=Sum([Sales Income])'. The report is displayed in a grid format with a light blue background for the header and footer sections.

Trait 1

- Fields are what you would expect to see

Trait 2

- Footer includes calculation to find the overall number of seats shown
- Footer includes calculation to find the sales income without any child discount
- Query is given on next page

Trait 3

- The candidate has not included a pdf of the report so trait 3 cannot be checked properly. From the design view can see there are weaknesses in terms of label names. Cannot determine whether layout is suitable nor formatting of monetary amounts

Forename	Surname	NumAdults	NumChild	SeatPrice	TotalSeats	Sales Income
Adam	Stevenson	2	1	£20.00	3	60
Alan	Gray	2	2	£29.00	4	116
Alan	Rawlings	2	6	£20.00	8	160
Anthony	Matthews	2	4	£20.00	6	120
Barry	Mckay	2	2	£29.00	4	116
Brian	Weston	2	3	£20.00	5	100
Charlotte	Perry	2	2	£20.00	4	80
Charlotte	Spencer	2	2	£20.00	4	80
Christopher	Lyon	2	1	£20.00	3	60
Darren	Smith	2	6	£29.00	8	232
David	Neilson	2	2	£20.00	4	80
Edward	Lawrence	2	2	£20.00	4	80
Eleanor	Keen	3	1	£29.00	4	116
Emily	Williams	3	5	£29.00	8	232
Faraz	Khan	2	2	£20.00	4	80
Fiona	Barker	4	4	£29.00	8	232
Georgina	Tate	2	2	£29.00	4	116
Gordon	Hughes	2	6	£20.00	8	160
Hannah	Hudson	4	4	£29.00	8	232
Ian	Bell	2	2	£29.00	6	174
Ian	Davis	2	2	£29.00	4	116
James	Anderson	2	3	£20.00	5	100
James	Hunt	2	2	£20.00	4	80
Joanne	Watts	2	2	£20.00	4	80
John	Cook	2	1	£20.00	3	60
John	Jenkins	4	4	£29.00	8	232
John	Skelton	2	1	£20.00	3	60
Julie	Butler	2	2	£20.00	4	80
Laurence	Reid	2	2	£20.00	4	80
Lisa	Barrett	2	1	£20.00	3	60
Louise	Slater	2	2	£29.00	4	116
Michael	Morris	2	3	£20.00	5	100
Michael	Palmer	4	4	£29.00	8	232
Natalie	Dixon	2	2	£20.00	4	80
Nathan	Williams	2	5	£20.00	7	140
Neville	Quinn	2	2	£20.00	4	80
Nicholas	Hartley	2	2	£20.00	4	80
Oliver	Catt	2	2	£29.00	4	116
Peter	Ferguson	4	4	£20.00	8	160
Total					228	5406

Query Setup

Rpt_Sales_Information Qry_Sales_Information Qry_TotalL:

Field:	Forename	Surname	NumAdults	NumChild	SeatPrice
Table:	Tbl_Customer	Tbl_Customer	Tbl_Seat_Sale	Tbl_Seat_Sale	Tbl_Seat_Sale
Total:	Group By	Group By	Group By	Group By	Group By
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:					
or:					

TotalSeats: Sum([NumAdults])+([NumChild])	Sales Income: ([TotalSeats])*([SeatPrice])
Expression	Expression
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Trait 2

- Whilst there is a calculation present to find the Total Seats sold per customer, it would not work correctly as the NumAdult and NumChild fields have not been summed. Ian Bell should have 8 tickets in total etc.
- The calculation for Sales Income is correct
- 3 out of 4 correct

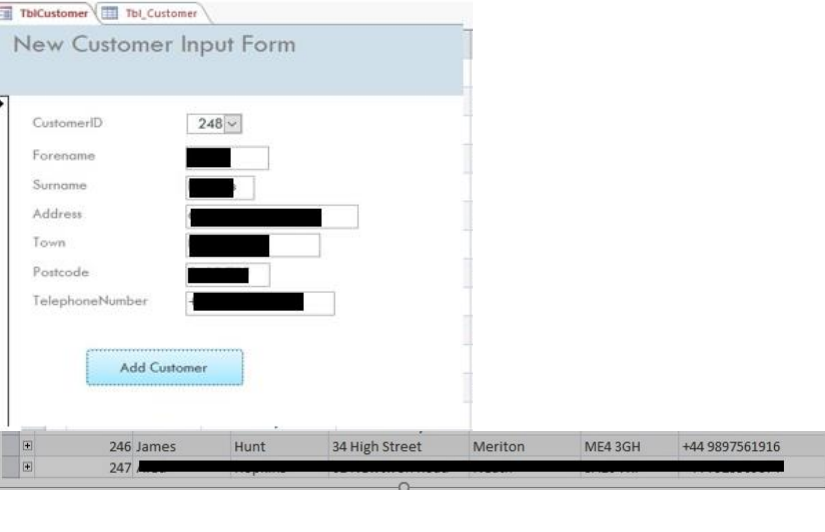
Assessment focus	Band 0	Band 1	Band 2	Band 3	Band 4	Max. mark
Activity 3: Interface and Functionality	0	1-7	8-13	14-19	20-26	26
	No rewardable material	<p>Interface is limited, including some forms, queries and reports required with some of the relevant fields</p> <p>Interface has details of some criteria 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>	

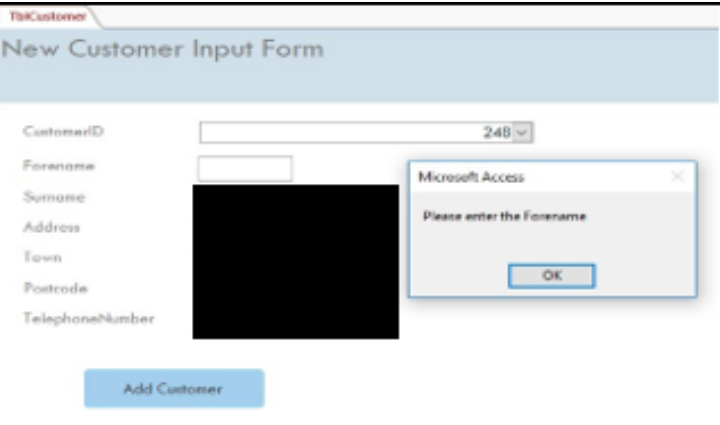
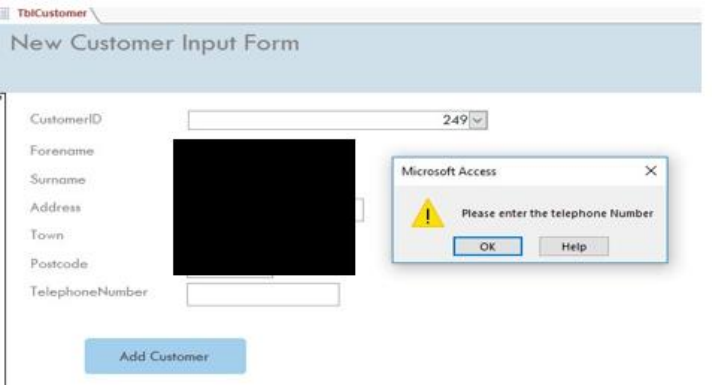
Trait	Band	Comments
1	4	All the required objects are present. However, the menu is missing a button
2	3	The learner has had a very good attempt at the four queries and report. Accuracies outweigh the inaccuracies. There are accurate details of most criteria and calculations required
3	2	Object names are sensible making maintenance of the database relatively straight-forward. The forms match their purpose though there are weaknesses. There is no consistent house style across the three forms though some attempt has been made to incorporate one. Some aspects of the forms are user friendly, field widths on customer form, combo boxes on sales form, however, it could have been better. Calculated fields have been shown on the sales form (note actual calculations are not assessed here). The learner has ensured there are useful data input messages for the parameter query. It is hard to assess the report as the learner has not included a pdf of it however, weaknesses can be seen in design view eg label names
4	2	The menu has been automated other than to open the report. Neither form appears to open read for data entry, which would aid usability. There has been an attempt to automate the generation of the CustomerID but it would not work. The SaleID would be automatically generated. The learner has automated the process of determining costs but not ensuring seats can be sold when there are none left. There is evidence that an attempt has been made to determine how many seats are left per event though it does not appear to be used anywhere. There is no attempt to make sure no more than 8 tickets can be purchased. There has been an attempt to automate the save process in terms of customer and sales. Both are wizard generated code other than the learner has added a save message to the customer saving process – it would not work properly ie only display if there was an error. The save process for both would ensure table level validation kicked in
5	2	=Average(3,2,2)
Band	2	Overall the evidence sits in mark band 2. If the pdf of the report had been included a more detailed assessment of the layout and formatting could be seen, which could have allowed entry into band 3
Mark	13	

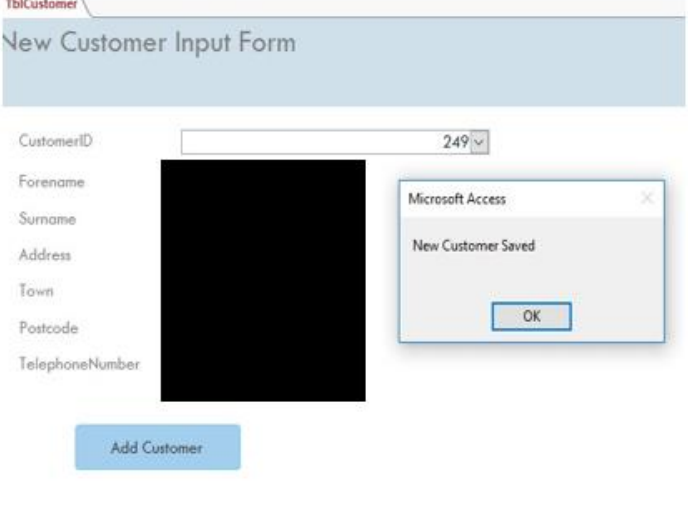
Activity 4 – Testing, Band 2, Marks 5

Input form to register a new customer testing

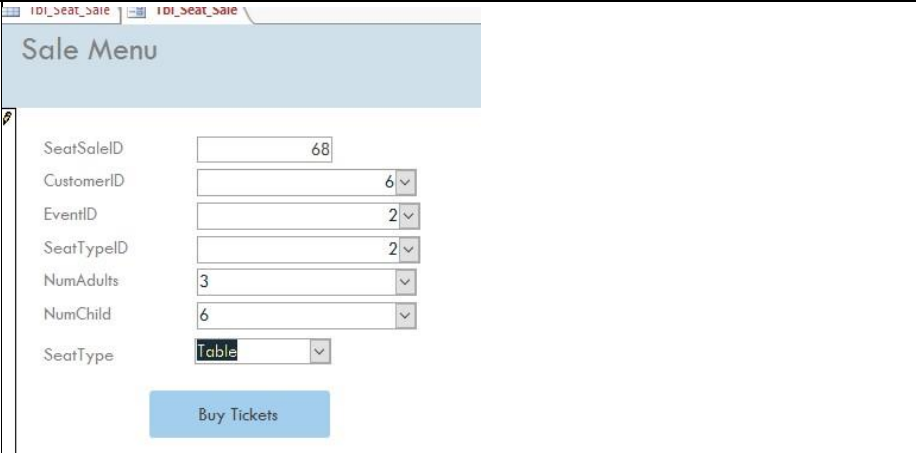
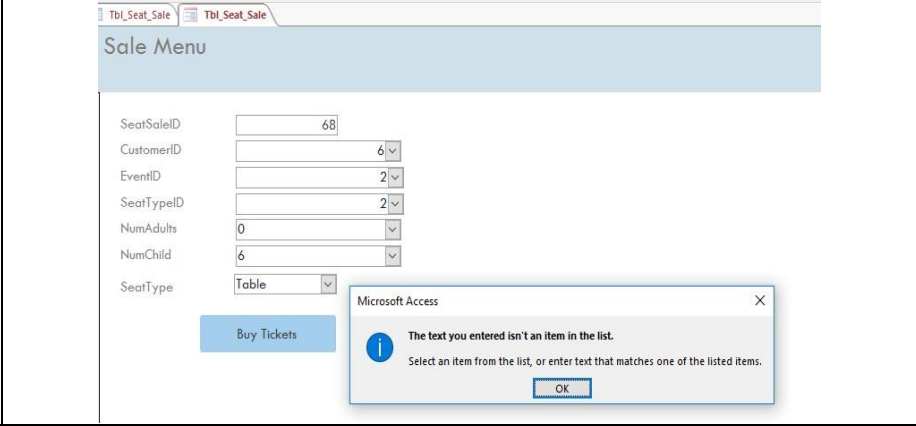
Note some personal information relating to the candidate was shown in some of the testing results. These have been anonymised

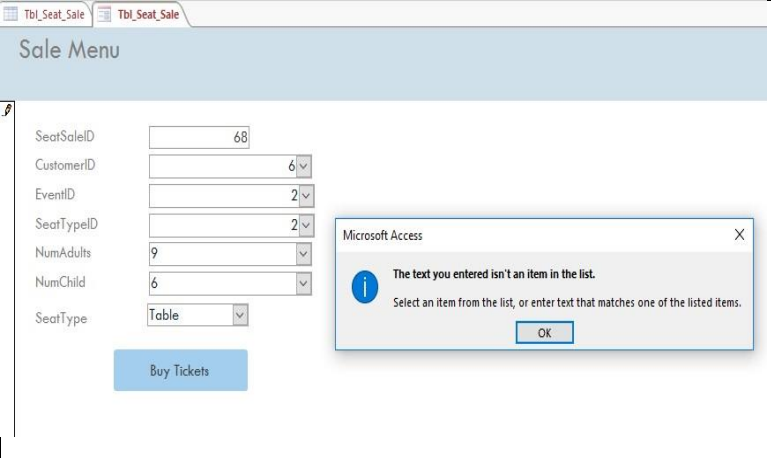
Test No	Type	Purpose of Test	Add suitable test data	Expected	Add screen print(s) of the results of this test carried out on your database. Ensure you show the test data used in the screen print(s)	Comments
1	N	To ensure customer form opens at a new record	Full Set of Test Data	I would expect to see a new customer the bottom of the Customer Form.		
Type		Type of test is correct				
Data		Test data is incorrect. Should be specifying that the test data will be the opening of the form or clicking button on menu to open form				
Expected		Expected results show learner has not understood the purpose of this test. It is supposed to show that the form is empty and ready for data input				
Actual		The results shown are irrelevant to the test being carried out				

2	N R	To ensure a new customer cannot be saved without a customer forename	Full Set of Test Data except for the customers Forename	I would Expect a message box to appear telling me that I need to enter the user's forename.		
Type		Type of test is incorrect it is erroneous testing				
Data		Test data is not specific should see each field and exactly what the test data to be used will be				
Expected		Results are good				
Actual		Actual results are good, can see the data on the form and the error message				
3	N R	To ensure a new customer cannot be saved without a telephone number	Full Set of Test Data except for the customers telephone number	I would Expect a message box to appear telling me that I need to enter the user's telephone number.		
Type		Type of test is incorrect it is erroneous testing				
Data		Test data is not specific should see each field and exactly what the test data to be used will be				
Expected		Results are good				
Actual		Actual results are good, can see the data on the form and the error message				

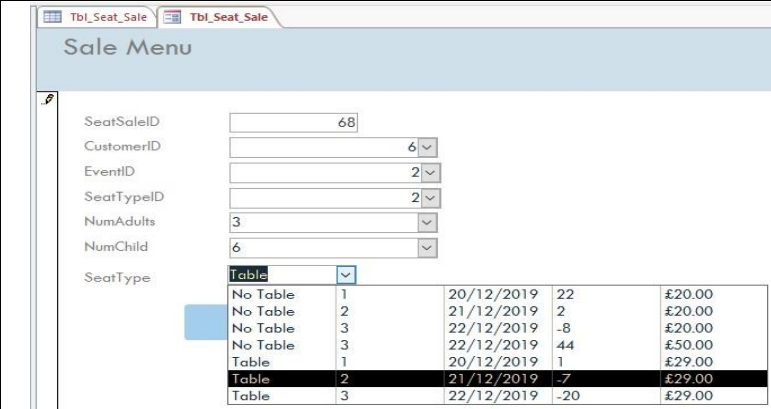
4	N	To ensure a valid new customer can be saved correctly	Full Set of Test Data	I would expect a message box to appear and tell me that the new customer has been saved	 <p>The screenshot shows a web form titled 'New Customer Input Form' with fields for CustomerID (dropdown menu showing 249), Forename, Surname, Address, Town, Postcode, and TelephoneNumber. A blue 'Add Customer' button is at the bottom. A 'Microsoft Access' dialog box is overlaid on the form, displaying the message 'New Customer Saved' and an 'OK' button.</p>	
Type	Type of test is correct					
Data	Test data is not specific should see each field and exactly what the test data to be used will be					
Expected	Some relevant results described but not all. Would expect to know what table the record will be saved into					
Actual	Nice to see the data on the form and the message that appears, however, should have shown table before addition of new customer so that the highest ID could have been seen. Then should have shown the table with the new record added					

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	N	To ensure sale form opens at a new record	Full set of Test Data	This Should open a new record on the Seat Sale Table		
Type		Type of test is correct				
Data		Test data is incorrect. Should be specifying that the test data will be the opening of the form or clicking button on menu to open form				
Expected		Expected results show learner has not understood the purpose of this test. It is supposed to show that the form is empty and ready for data input				
Actual		The results shown are irrelevant to the test being carried out				
2	N X	To ensure a sale cannot be made where the number of adult tickets being purchased is below the acceptable range	I will set the number of adults to 0. I have made it so that the customer can only select a number between 1 and 7	There should be an error message pop up.		
Type		Type of test is incorrect, should be extreme				
Data		Test data is fine for number of adults but should be specifying the other data that will be input at the same time				
Expected		Expected results are relevant but should be specifying error message. Testing also incorporates making sure the error messages are appropriate this is a standard Access error message				
Actual		The actual results are fine. They do show what is present on the form and the number of adults matches what was given in test data. Would have been stronger if all of the test data had been given in the first place				

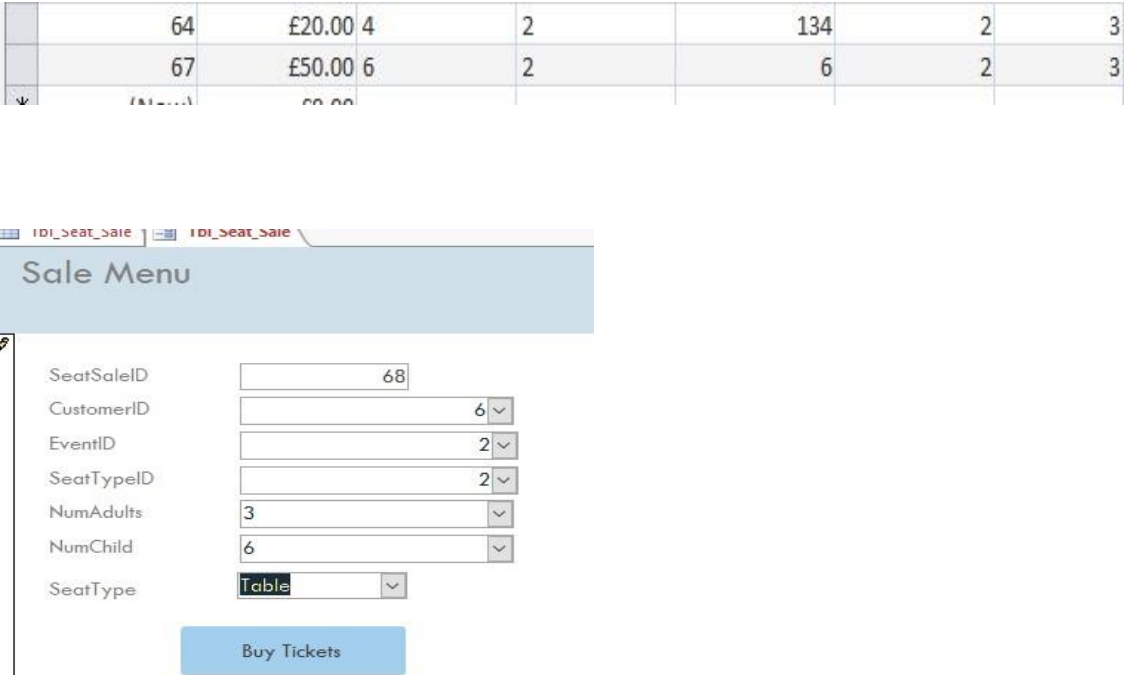
3	N X	To ensure a sale cannot be made where the number of adult tickets being purchased is above the acceptable range	I will set the number of adults to 9. I have made it so that the customer can only select a number between 1 and 7	There should be an error message pop up.		
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Type	Type of test is incorrect, should be extreme					
Data	Test data is fine for number of adults but should be specifying the other data that will be input at the same time					
Expected	Expected results are relevant but same applies as test 2					
Actual	The actual results are fine. They do show what is present on the form and the number of adults matches what was given in test data. Would have been stronger if all of the test data had been given in the first place					

Comments						
4	N	To ensure the relevant event and customer information appears when an event and customer has been selected/input	I have selected the CustomerID only so the user wont see his/her name.	The correct information should pop up.		Unfortunately, there was a little mishap when creating the Table and it shows us that there are minus seats left which is inaccurate.

Type	Type of test is correct					
Data	No relevant test data given. Should have specified a particular Customer ID and the rest of the data that would be used on the form					
Expected	No specific expected results given. Should have given specific customer data that would appear eg if the Customer ID was 1 then Surname would be Bell					
Actual	The results do not prove anything. They are irrelevant					
Comments	Learner has noticed a problem with the results shown but has not realised that what was supposed to be tested has not been and that the form is missing functionality					

5	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 	Selected test data would be selecting a few settings and adding them to the table	The correct information should come up		I didn't have time to complete all of the form so this function is unavailable.
Type	Type of test is correct					
Data	No specific test data. Should have said what customer, event, seat type. Should also have specified the calculations used as test data here or 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 = ### = £##.## etc. The expected results are also irrelevant.					
Actual	There are no results					

6	N	To ensure a valid sale saves correctly	Selecting some data and clicking the buy tickets button	It should register the information and add it to the table.	 <p>The screenshot shows a table with the following data:</p> <table border="1"> <tr> <td>64</td> <td>£20.00</td> <td>4</td> <td>2</td> <td>134</td> <td>2</td> <td>3</td> </tr> <tr> <td>67</td> <td>£50.00</td> <td>6</td> <td>2</td> <td>6</td> <td>2</td> <td>3</td> </tr> </table> <p>Below the table is a 'Sale Menu' form with the following fields:</p> <ul style="list-style-type: none"> SeatSaleID: 68 CustomerID: 6 EventID: 2 SeatTypeID: 2 NumAdults: 3 NumChild: 6 SeatType: Table <p>A 'Buy Tickets' button is located at the bottom of the form.</p>	64	£20.00	4	2	134	2	3	67	£50.00	6	2	6	2	3
64	£20.00	4	2	134	2	3													
67	£50.00	6	2	6	2	3													
Type	Type of test is correct																		
Data	No specific expected results given. Should have given specific data that would have been used ie CustomerID 6 etc																		
Expected	Some relevant results described but not all. Would expect to know what table the record will be saved into and about the SalesID incrementation																		
Actual	Good that the learner has included the form with data and the table after save. However, need to see the table before the save so can determine the highest ID. What actually happens when save button clicked should be shown too (eg messages, clearing of form – even if not implemented should still show form after save button clicked), then should show table with results.																		

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 show a working solution overall. Both forms have save evidence (albeit weak)
2		Only the testing of the number of adults field has specific test data – and then there is some missing. Test data is weak throughout
3		Results prove the database operates under some normal circumstances and that it can cope with some erroneous and extreme data relevant to the scenario – do not penalise for misidentifying some of the tests, the tests have still be carried out
4		There is very little understanding in terms of errors found. Some errors were not identified
Band	2	
Mark	5	

Activity 5 - Evaluation, Band 1, Marks 1

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 	Yes	<p>The data base will record and show information on all three Forms. I made a few little changes the event sales form during the testing to make it look neater and preform a little better.</p> <p>Nothing of relevance here</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	I made sure that you could only choose between the two options and could not enter your own. Nothing of relevance here. Too vague
There must be at least one adult seat purchased with every sale.	Yes	I made has to be at least one adult but using ">=1" function and then then used the <=7 function for the children so that means there has to be at least one adult present when purchasing the tickets. Does not show any understanding that this does not mean a sale cannot exceed 8 tickets. For higher bands expect to realise would need table level validation rather than field level or would be better validated on the form
A sale cannot exceed eight tickets.		

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	The customer's information will be placed at the bottom of the customer table. This meant whenever you need to see the last added customer you know where to look. Nothing of any relevance
<p>An input form to purchase seats if they are available.</p> <ul style="list-style-type: none"> It should show the relevant event, customer and seat sale information 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 	Somewhat	<p>I was able to input the information form the form but the tables would say they are at a minus number or had 50 spaces left. I knew this want the case so during the testing I tried to fix it but it didn't do much in the way of looking any better. Relevant but no technical language and does not realise the minus is there because sales have been allowed to be added to the table when all of the seats were gone. It did show the total the customer needed to pay and displayed the costs for each ticket. However, I was not show that the Children seat re 10% cheaper than the adults. It did show that there are 56 seats without table and 40 with, but like I said above, I fiddled around with the query a few times but couldn't get it to be consistent with what I was reading and counting up myself. Very vague</p>

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	1	There is very little of any relevance in the evaluation at all. The discussion of the seat sale form is where the mark is coming from.
2		
3		
4		
Band	1	
Mark	1	