Unit 2 Creating Systems to Manage Information – 1906





# Level 3 National in Information Technology

May 2019 Example Solution

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## Introduction

This solution is only **one** example. Candidates could have approached it several different ways. It is important to read the guidance with each activity. It is not assumed that a method that differs from solution is incorrect. Overall, we are looking for a database that works, has been well customised and is sensible in terms of the scenario and what should be considered in terms of that.





## Activity 2 – Table Structures and Validation Table Structures

🔲 tblCustomer 🔀		$\blacksquare$ tblSeatSales $\times$	
Field Name	Data Ty	Field Name	Data Typ
CustomerID	AutoNumber	SeatSaleID	AutoNumber
Forename	Short Text	EventID	Number
Surname	Short Text	CustomerID	Number
Address	Short Text	SeatTypeID	Number
Town	Short Text	NumAdults	Number
Postcode	Short Text	NumChild	Number
TelephoneNumber	Short Text	🛄 tblSeatType 🔀	
thiswant V		Field Name	Data Type
	Data Tura	SeatTypeID	AutoNumber
Field Name	Data Type	SeatType	Short Text
v <u>eventib</u>	AutoNumber	SeatPrice	Currency
Event Description 5	Short Text		
EventDate	Date/Time		

#### Table Validation Presence Checks

	tblSeatSales ×				
2	Field Nam	ne	Data Type		
1	SeatSaleID		AutoNumber		
	EventID		Number	$\sim$	
	CustomerID		Number		
	SeatTypeID		Number		
	NumAdults		Number		
G	eneral Lookup	Long Intege	r		
F	ormat				
	Decimal Places	Auto			
	nput Mask				
C	Caption				
	Default Value				
N	alidation Rule	Is Not Null			
N	/alidation Text	You must sel	ect the event you requ	ire	

tblEvent	tblSeatSales
EventDescription	EventID
EventDate	CustomerID
	SeatTypeID
	NumAdults
tblCustomer	tblSeatType
Forename	SeatType
Surname	SeatPrice (may be in
Address	tblSeatSales)
Postcode	
TelephoneNumber	

#### Length Checks



🔠 tblCustomer 🔀			
🚄 🛛 🕹 Field N	Data		
Address	Address		
Town		Short Text	
General Lookup			
Field Size	50		
Eormat			

	TelephoneNumber			Short Text
G	Seneral	Lookup		
F	ield Siz	e	14	

#### Value Lookups

	tblSeatType $ imes$		
4	Field N	lame	Data
l	SeatTypeID		AutoNumbe
	SeatType		Short Text
	SeatPrice		Currency
G	eneral Lookup		
۵	isplay Control	Combo Box	
R	low Source Type	Value List	
R	low Source	"Table";"No T	able"
B	ound Column	1	

#### Table Lookups

	tblSeatSales $ imes$			
	Field Na	me	Data Type	
Ť.	SeatSaleID		AutoNumber	
EventID		Number	$\sim$	
	CustomerID		Number	
	SeatTypeID		Number	
			Field	Properties
(	General Lookup	Combo Box		
	Row Source Type	Table/Ouerv		
	Row Source	Row Source SELECT (tble)		
	Bound Column 1		rentj.[EventiD], [tbiEven	tj.[Event D
Column Count 3		1	veng.[Eventib], [tbieven	tj.[Event D
	Bound Column Column Count	1 3	veng.[cventib], [tbicven	tj.[Event D
	Bound Column Column Count Column Heads	1 3 No	veng, jeventioj, ji bieven	tj.[Event D
	Bound Column Column Count Column Heads Column Widths	1 3 No 1.35cm;3.254	icm;2.54cm	tj.[Event D
	Bound Column Column Count Column Heads Column Widths List Rows	1 3 No 1.35cm;3.254 16	icm;2.54cm	tj.jEvent D
	Bound Column Column Count Column Heads Column Widths List Rows List Width	1 3 No 1.35cm;3.254 16 7.143cm	icm;2.54cm	tj.jEvent D

tblSeatSales $ imes$			
Field N	ame	Data Type	
EventID		Number	
CustomerID		Number	
SeatTypeID		Number	
NumAdults		Number	
		Fiel	
General Lookup			
Display Control	Combo Box		
Row Source Type	Table/Query		
Row Source	SELECT [tblS	SELECT [tblSeatType].[SeatTypeID],	
Bound Column	1		
Column Count	3		
Column Heads	No	No	
Contractor Add attacks	1 0 0 5 1 5 1	ame 2 5 4 ame	
Column widths	1.826CM;2.54	rcm;2.54cm	
List Rows	1.826cm;2.54	rcm;2.54cm	
List Rows List Width	1.826Cm;2.54 16 6.905cm	icm;2.54cm	

	tblSeatSales $ imes$			
2	Field Nar	ne	Data Type	
ŧ.	🕅 SeatSaleID		AutoNumber	
	EventID		Number	
	CustomerID		Number	
	SeatTypeID		Number	
			Field	
G	Seneral Lookup			
	Display Control	Combo Box		
F	Row Source Type	Table/Query	Table/Query	
F	Row Source	SELECT [tbIC	ustomer].[CustomerID],	
E	Bound Column	1		
0	Column Count	5		
(	Column Heads	No		
Column Widths		1.826cm;2.64	6cm;1.35cm;1.482cm;2.	
L	ist Rows	16		
L	ist Width	9.63cm	9.63cm	
L	imit To List	Yes		

#### Range Checks

EventDate	Date/Time 🗸
General Lookup	Field Properties
Format	Short Date
Input Mask	
Caption	
Default Value	
Validation Rule	Is Not Null And Between #20/12/2019# And #22/12/2019#
Validation Text	Events are between the 20 and 22 December only. Please try again.

#### Format Checks

TelephoneNumber Short Text		Postcode	Sho	
General Lookup			General Lookup	
Field Size	14		Field Size	7
Format			Format	
Input Mask	*+44 *0000	00000;	Format	
Canting			Input Mask	>LLO\ OLL

## Activity 3 - Interface and Functionality Object Names



#### Menu



frmCustomer ×	Add Customer X			
• · · · 1 · 1 · 1 · 2 · 1 · 3 · 1 · 4 · 1 · 5 · 1 · 6 · 1 · 7 · 1 · 8 · 1 · 9 · 1 ·				
Form Header	Add a Customer			
Add a Customer	Add information where red * appears.			
Add information where red * appears. The CustomerID will be generated for you. Click Save to save the Customer information	The CustomerID will be generated for you. Click Save to save the Customer information			
F Detail	Customer ID (New)			
Customer ID CustomerID	Enter Forename			
Enter Forename Forename *	Enter Surname *			
Enter Surname Surname *	Enter Address *			
Enter Address Address *	Enter Town			
Enter Town Town	Enter Postcode *			
5     Enter Postcode     *       Enter TelephoneNumber     TelephoneNumber     *	Enter TelephoneNumber *			
Save Close	Save Close			

#### Input form to register a new customer

Any suitable method for generating ID eg AutoNumber used in example above. DMax used in example to the right:

Form					>
Format	Data	Event	Oth	ner	All
Record	Source			SEI	ECT tblCu
Records	et Type			Dy	naset
Fetch Defaults			Yes		
Filter					
Filter On Load			No		
Order By					
Order By On Load			Yes		
Wait for Post Processing No					
Data Entry Yes					

Г

This shows the method

Custom	erID			$\sim$	
Format	Data	Event	Othe	r All	
Control	Source		C	ustomerl	D
Text For	mat		P	lain Text	
Input M	lask				
Default	Value		=	DMax("C	ustomerID", "tbICustomer") + 1
Validati	on Rule				

for ensuring form will open at a new record.

Could have used code or macro to go to a new record. Also, could have used code or macro on menu to go to a new record.

Lots of different ways to save. Here are a few examples:

Private Sub cmdSave_Click() If IsNull(Surname) Or IsNull(Address) Or IsNull(Postcode) Or IsNull(TelephoneNumber) Then MsgBox "Error, you must enter the surname, address, postcode and telephone number", vbOKOnly
Else
DoCmd.GoToRecord , , acNewRec MsgBox "The customer had been saved", vbOKOnly
End If
End Sub

This one uses code rather than relying on the table level validation. Checks for the required fields, displays error message if any missing or saves and moves to a new record. (Band 4 providing all presence checks sensible and ID has also been generated)

```
Private Sub cmdSave Click()
'This traps any errors when the save button is clicked
'If there is an error the event is cancelled and the error message
'from the table validation rules shown
  On Error GoTo Error Handler
 If Me.Dirty Then Me.Dirty = False
Exit_Sub:
   Exit Sub
Error Handler:
       MsgBox Err.Description, vbExclamation
End Sub
Private Sub Form AfterInsert()
'After the valid record has been added the form is cleared by
'by moving to a new record and a save message displayed
    DoCmd.GoToRecord , , acNewRec
    MsgBox "The customer has been saved", vbOKOnly
End Sub
```

This one checks to see whether the record has changed. If it has table level validation kicks in and the error message is displayed.

Moving to a new record and the save message will only display if a record has successfully been inserted into the table. (Band 4 providing ID has also been generated))

Same method as shown in code but using a macro. (Band 4 providing all presence checks sensible and ID has been generated)

$\blacksquare$ frmCustomer $ imes$ ,	🔁 frmCustomer : cmdSave : On Click 🛛 🛛
🗉 If isnull(surname	) or isnull(address) or isnull(postcode) or isnull(telephonenumber) Then
MessageBox	
Message	Error: You must enter the surname, address, postcode and telephone number
Веер	Yes
Туре	None
Title	
E Elso	
GoToPocord	
Object Type	
Object Name	
Posord	New
Cecord Officiat	INEW
Offset	
MessageBox	The sustemer record has been swed
wiessage	The customer record has been saved
Веер	Yes
Туре	None
Title	
End If	

🗐 frmCustomer 🗙 🔁 frmCustomer : cmdSaveCusto
OnError
Go to Next
Macro Name
RunMenuCommand
Command SaveRecord
If [MacroError]<>0 Then
MessageBox
Message =[MacroError].[Description]
Beep Yes
Type None
Title
End If

This is the default code behind the save button that is generated when using the wizard. This would kick in with table level validation and messages but would not move to a new record nor display a save message. (Band 2)

This would be used with an unbound form, would need to see the query with no truncation and it being used in the code/macro. (Band 4 if all other aspects of the save and generating ID are present, the checking for fields present, not accepting invalid record and providing error message(s), saving valid record, save message, move to new record)

Field:	Expr2: [Forms]![frmCustomer]![Custo	merForename]	Expr3: [Forms]![frmCustomer]![Cu	ustomerSurname]	Expr4: [Forms]![frmCustomer]![Address]
Table:					
Sort:					
Append To:	Forename		Surname		Address
Criteria:					
or:					
_				1	
Expr7: [Fo	orms]![frmCustomer]![Town] 🔍	Expr5: [Forms]![f	frmCustomer]![Postcode]	Expr6: [Forms]![frn	nCustomer]![TelephoneNumber]
Town		Postcode		TelephoneNumbe	r

There are many ways to meet the requirements.

#### 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.

There will be many different methods of achieving this.

The save process could be along the lines of those shown for the customer form with more validation occurring as events happen on the form or the save process could include all the validation. One method only is shown here.

Marks toward the top end would ensure the user has a smooth experience eg only being able to select events with seats rather than having to wait until save button is clicked to find that out etc.

The method shown would be worthy of the very top of band 4 providing everything else in the activity overall was sound.

📑 Add Sale 🗙					
Add a Sale					
Select the Date, Customer and Seat Type. Enter the number of Adult and Children's tickets required The SaleID will be generated for you. Click Save to save the sale. If no dates appear in the list of dates all events are sold out.					
SaleID (New Select Date Event Description	V) *				
Customer Information	Seats and Costs				
Select Customer  Customer Address	Select Seat Type Table V Seats Sold Seats Left				
TelephoneNumber	Enter Seat Quantities         Adult       1       * Child (2-12)       0         Cost Per Seat       £29.00				
	Total Cost Adults£29.00Total Cost Children£0.00Overall Cost£29.00				
Save	Close				

The form already has some default values in place to aid validation.

Add a Sale	
Select the Date, Customer and Seat Type. Enter the number of Adult and Children's tickets required The SaleID will be generated for you. Click Save to save the sale. If no dates appear in the list of dates all events are sold out.	
✓ Detail          SaleID       SeatSale         Select Date       EventID         Event Description       Event Description         Customer Information       Select Seat Type         Select Customer       Cust(>*         Customer       Estent Sold         Select Customer       Select Seat Type         Customer       Estent Sold         Select Customer       Select Seat Type         Select Customer       Estent Sold         Select Seat Type       Select Seat Type         Address       Address         Town       Enter Seat Quantities         Adult jimAdu       Child (2-12) lumChi         Cost Per Seat       =FormatCurrency([SeatTypeID].[column](2),2)         Address       =SeatCost]*[numAdults]         SeatCost Adults       =[SeatCost]*[numAdults]         Total Cost Adults       =[SeatCost]*[numAdults]         Total Cost Children       =Iif[[NumChild]>0.[[SeatCost]*[numChild]>0.[[SeatCost]*[numChild]*0.1],0)         Overall Cost       =[totalcostadult]+[totalcostchildren]       7	atTypeID]) 2
Save Close	

- 1. Customer name has been concatenated no requirement to do this though candidates may if they choose
- 2. This looks up the total seats sold from qryFormSeatsSold where the seatID matches that picked on the form from the Select Seat Type combo box (SeatTypeID). Must be able to see the query in full with no truncation
- 3. This checks the Select Seat Type combo box (SeatTypeID) and calculates how many of that seat type are left by subtracting the Seats Sold from the relevant number (40 if table, 56 if no table)
- 4. This picks up the cost per seat from the third column in the Select Seat Type combo (SeatTypeID) and formats it to currency with 2 decimal places.
- 5. This calculates the total cost for adult seats.
- 6. This calculates the total cost for child seats considering 10% discount.
- 7. This calculates the overall seat cost

== frmS	SeatSale 🗙 📑 qryFormSeatsSold	I X			
4	tblSeatSales  tblSeatSaleID EventID CustomerID SeatTypeID NumAdults  tblSeatSuleIS  tblSeatSuleIC tb				
<b>F</b> 1.	alah Ing ung			6 IT ID	
Tel	eld: EventiD	NUMADUITS: NUMADUITS	Numchild: Numchild	SeattypeiD	Totai: [NUMAdults]+[NUMChild]
Tat	Die: tbiseatsales	tblSeatSales	tblSeatSales	tbiSeatSales	-
10	otal: Group By	Sum	Sum	Group By	Expression
S	ort:				
Sho	ow:	$\checkmark$		$\checkmark$	$\checkmark$
Crite	eria: [FORMS]![frmSeatSale]![EventID]				
	on				

Used with (2). Links EventID in query to EventID selected from the EventDate combo box on form.

EventDate					$\sim$		
Format Data Event Oth				er	All		
Control Source				Eve	ntID		
Row Source				qryf	FormCo	mboSource	
Row Source Type			Tab	le/Que	У		

This shows that the control source for this combo box is EventID and that its row source is qryFormComboSource. Would need to see query in full with no truncation. Expect to see row sources for combo boxes that candidates

have done something 'special' to. It is being used so that the user only sees events that have seats left. Notice the query is using query 4 within it. That is fine as will see that query elsewhere though candidates could also include it here.





- 1. This is the method that has been used to make sure the form opens at a new record. Could be done by setting Data Entry to Yes on form properties or in macro, or on code or macro for menu.
- 2. This makes sure that if the user tries to leave the NumChild empty or uses a number less than 0 then it will always reset to 0. Assuming there will always be 1 child is appropriate too if candidates have done that.
- 3. This checks to make sure the Customer and Event has been selected. It then checks to make sure a maximum of 8 seats have been purchased. It then checks to make sure the number of seats purchased does not exceed the number of seats left. Finally, if all is fine, it saves the record, clears the form by moving to a new record and refreshes the form in order to requery the Select Event Date combo box (EventID) so that if there are no seats left the combo box will be empty.

NumAdults	Number 🗸
NumChild	Number
	Field Properties
Conoral	
General Lookup	
Field Size	Long Integer
Format	
Decimal Places	0
Input Mask	
Caption	
Default Value	1
Validation Rule	Is Not Null And Between 1 And 8
Validation Text	There must be at least 1 adult and a maximum of 8
Denvined	

The table validation ensures that the number of adults is defaulted to 1 as the form opens and must be between 1 and 8. As soon as the user tries to move out of the field the check takes place so that there is always a valid number of adult tickets before the save can take place. Nothing extra needed to be added to the code to do this.

## Queries

#### Query 1

a query to display an alphabetically sorted list of customers from Dilmouth showing customer names and telephone numbers

📑 qry10	)ilmouth $ imes$		
tblCustomer * E CustomerID Forename Surname Address Town		r	
Field Table Sor Show Criteria o	d: Surname e: tblCustomer t: Ascending v: a: r:	Forename tblCustomer Ascending	Town tblCustomer

Sort may be either surname/forename or forename/surname. Must be multiple sort. If concatenated treat as multiple sort

qry1Dilmouth $ imes$		
Surname	•	Forename 👻
Butler		Julie
Cook		John
Dixon		Natalie
Goodwin		Gordon
Gray		Alan
Hartley		Nicholas
Hughes		Gordon
Jackson		Paul
Jenkins		Kyle
Khan		Faraz
Lucas		Sam
Macnamara		Rachel
McAdam		Siobhan
Mckay		Barry
Neilson		David
Palmer		Michael
Perry		Charlotte
Rawlings		Alan
Singleton		Yvonne
Skelton		John
Spencer		Charlotte
Tate		Georgina
Thompson		Peter
Weston		Brian
Wharton		Tina
Williams		Emily

#### **Query 2** a query to update the town name of Lower Marsdon to Lower Marsden

Field:	Town	$\sim$
Table:	tblCustomer	
Update To:	"Lower Marsden"	
Criteria:	"Lower Marsdon"	
or:		

#### Query 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



This datasheet screenprint is for illustration only. Depends on what date and seat type candidates use.

	qry3DateAndTy	peParameter 🔅	×					
1	EventDate 👻	SeatType	•	Event Description	Ŧ	Forename 👻	Surname 👻	TelephoneNumber
	21/12/2019	Table		The Polar Express Extravaganza		Hannah	Hudson	+44 121891101
	21/12/2019	Table		The Polar Express Extravaganza		Barry	Mckay	+44 162415874
	21/12/2019	Table	$\sim$	The Polar Express Extravaganza		Peter	Thompson	+44 123781733
	21/12/2019	Table		The Polar Express Extravaganza		Richard	Thorpe	+44 256974744
	21/12/2019	Table		The Polar Express Extravaganza		Emily	Williams	+44 258690151
	21/12/2019	Table		The Polar Express Extravaganza		Oliver	Catt	+44 315340094
	21/12/2019	Table		The Polar Express Extravaganza		Yvonne	Singleton	+44 332968003
	21/12/2019	Table		The Polar Express Extravaganza		lan	Bell	+44 115427598
*	4							

### 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



	qry4SeatsLeft $ imes$					
2	Event Description 👻	AdultsSeats 👻	ChildSeatsS 👻	SeatsLeft 👻	EventID	
	Home Alone Extravaganza	39	57	0		3
	Sing A Long Christmas Extravaganza	48	48	0		1
	The Polar Express Extravaganza	39	46	11		2

#### 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.

	rptSales $ imes$							
•	······································	1 • 5 • 1 • 6 • 1 • 7 • 1 • 8 •	1 + 9 + 1 + 10 +	11 12	13 • 1 • 14 • 1 • 15 •	· · · 16 · · · 17 · · · 18 ·	1 - 19 - 1 - 20 - 1 - 21 - 1 - 22 - 1 - 23 - 1	· 24 ·
1								
- - 1	Sales per Custo	omer						
-	Surname	Forename	Adult Seats	Child Seats	Total Seats	Sales Without		
1						Discount		
						-		_
-	Surname	Forename	AdultSeats	ChildSeats	TotalSeats	≥sWithoutDisco		
				· · · ·		· · · ·		
								_
-			0	verall Number	of Seats Sold	=5	Sum([TotalSeats])	
1 - -			Ove	erall Sales With	out Discount	=Sum([\$	SalesWithoutDiscount])	

Should be an actual pdf document of report to look at. This is extract of first and second page

Г						
	Sales per Cu	ustomer				
	Surname	Forename	Adult Seats	Child Seats	Total Seats	Sales Without Discount
	Anderson	James	2	3	5	£100.00
	Armstrong	Laura	1	3	4	£80.00
	Barker	Fiona	4	4	8	£232.00
	Barrett	Lisa	2	1	3	£60.00
	Barry	Sean	1	3	4	£80.00
	Bell	lan	4	4	8	£232.00
	Booth	Recca	2	1	3	£60.00

Page 1

vvillarits critity	3	5	8	£232.00
Williams Nathan	2	5	7	£140.00
Wood Stephen	4	4	8	£232.00
		Overall Number	r of Seats Sold	277
		Overall Sales Wit	hout Discount	£6,584.00

#### Page 2



SeatPrice	SalesWithoutDiscount: [TotalSeats]*[SeatPrice]	CustomerID
tblSeatType		tblCustomer
Group By	Expression	Group By
$\checkmark$	$\checkmark$	$\checkmark$

#### Activity 4 - Testing Input form to register a new tenant testing

Screenprints may be on the small side here. Learners can put the screenshots after the table or use A3.

Tes t No	typ e test	Purpose of Test	Add suitable test data	Add the results you would expect to get from a fully working system	Add screenprint(s) of the results of this test carried out on your database. Ensure you show the test data used in the screenprint(s)	Only complete this column if the results are not as expected • Explain the error If you correct the error explain how you have done it including a screenprint
1	Ν	To ensure customer form opens at a new record	Open form	Form opens CustomerID = New (generated autonumber ) Rest of fields blank	Add Customer         Add information where red * appears.         The CustomerID will be generated for you.         Click Save to save the Customer information         Customer ID       (New)         Enter Firstname       *         Enter Surname       *         Enter Town       *         Enter Postcode       *         Enter TelephoneNumber       *         Save       Close	

3	R	To ensure	CustomerID	Error	$\blacksquare$ Add Customer $ imes$			I realised that I had	not included a validation rule to
a new : New mess customer Forename: be d cannot be Surname: sayin saved Meek must without a Address: 10 foren customer The Grove forename Town:			: New Forename: Surname: Meek Address: 10 The Grove Town:	message to be displayed saying "You must enter a forename"	Add information w Add information w The CustomerID will Click Save to save the	USTOMET where red * appears. be generated for you. Customer information		make sure a foren to the table rules a I did not need to button as that for effect anyway.	ame was entered so I added this nd added an asterisk to the form. o change my code on the save ces table validation to come into
		forename	Town: Dilmouth Postcode: FE3 1LL Telephone Number: +44 123456789 0		Customer ID Enter Firstname Enter Surname Enter Address Enter Town Enter Postcode Enter TelephoneNumber	251 Meek 10 The Grove Dilmouth FE3 1LL +44 1234567890 s. Jour. attion	) * ) * ) *	tblCustomer ×         Field Na         CustomerID         Forename         General Lookup         Field Size         Format         Input Mask         Caption         Default Value         Validation Rule         Validation Text	me Data Type AutoNumber Short Text Field Prop 30 Is Not Null You must enter a forename
					Enter Firstname Enter Surname Enter Address Enter Town Enter Postcode Enter TelephoneNumber Save Close		×		

Add Customer ×
Add a Customer
Add information where red * appears. The CustomerID will be generated for you. Click Save to save the Customer information
Customer ID (New)
Enter Firstname
Enter Surname *
Enter Address *
Enter Town
Enter Postcode *
Enter TelephoneNumber *
Sort & Filt Add Cu You must enter a forename
Th Clic OK ion
Customer ID 252
Enter Firstname *
Enter Surname Meek *
Enter Address 12 The Grove *
Enter Town Dilmouth
Enter Postcode FE3 1LL *
Enter TelephoneNumber +44 1234567890 *

3	R	To ensure a new customer cannot be saved	CustomerID : New Forename: Simon Surname:	Error message to display saying "You must enter	Microsoft Access × 1 Vou must enter the customer's mobile telephone number
		without a telephon e number	Tipper Address: 15 The Avenue Town: Dilmouth Postcode: FE3 1LX Telephone Number:	the customer's mobile telephone number"	OKCustomer ID253Enter FirstnameSimonEnter SurnameTipperEnter Address15 The AvenueEnter TownDilmouthEnter PostcodeFE3 1LXEnter TelephoneNumber•
4	N	To ensure a valid new customer can be saved correctly	CustomerID : New Forename: Simon Surname: Tipper Address: 15 The Avenue Town: Dilmouth Postcode: FE3 1LX Telephone Number: +44 123445589 1	Record to be saved in tblCustomer with an autonumber higher than the last used. Message to be displayed saying "The customer has been saved" Form to clear	CustomerID +       Forename       Surname       Address       Town       Postcode       TelephoneNum         a       246 James       Hunt       34 High Street Meriton       ME4 36H       44 9897561316         a       241 Julie       Butter       3 Sullivan Way Dilmouth       DIs 18V       +44 989561326         a       222 Stephen       Wood       16 Christie Stri Lower Marsdoi DL8 4MC       +44 9225499078         Add information where red * appears. The CustomerID will be generated for you. Click Save to save the Customer information       Customer ID       247         Enter Forename       Simon       *         Enter Forename       Tipper       *         Enter Forename       Tipper       *         Enter rown       Dilmouth       *         Enter Postcode       FE3 11X       *         Enter TelephoneNumber       +44 1234455891       *         Save       Close       *

Add Custo Microsoft Access X The customer has been saved ars. The C ryou.
Click s or mation Customer ID (New) Enter Firstname *
Enter Surname   Enter Address   Enter Town   Enter Postcode   Enter TelephoneNumber
Add Customer X       It blocustomer X         CustomerID +       Forename         4       247         247       Simon         Tipper       15 The Avenue Dilmouth         4       246         246       James         Hunt       34 High Street         Meriton       ME4 3GH         +44       9897561916         4       241         Julie       Butler         3       Sullivan Way Dilmouth         DL5       18V

#### Input form to purchase seats if they are available

Tes t No	Typ e test	Purpose of Test	Add suitable test data	Add the results you would expect to get from a fully working system	Add screenprint(s) of the results of this test carried out on your database. Ensure you show the test data used in the screenprint(s)	Only complete this column if the results are not as expected • Explain the error If you correct the error explain how you have done it including a screenprint
1	N	To ensure sale form opens at a new record	Open form	SalelD: New SeatTypeID: 1 – table to show in combo box Adult:1 Child:0 CostPerSeat: £29.00 Total Cost Adults: £29.00 Total Cost Children: £0.00 Overall Cost: £29.00 All other fields to be empty	Select the Date, Customer and Seat Type.   Enter the number of Adult and Children's tickets required   The SaleID will be generated for you.   Click Save to save the sale.   If no dates appear in the list of dates all events are sold out.     SaleID New   Select Date   Event Description     Select Customer   Address   Select Customer   Address   Select Seat Type Table Seats Sold   Seats Left   Inter Seat Quantities   Adult   Address   Customer   Address   Set Close	

2	Х	To ensure a	SaleID;	Error message to be		
		sale cannot	Autonumber	displayed saving "There		
		be made	higher than	must be at least one	SaleiD 68	
		where the	currently	adult"	Select Date 21/12/2019 *	
		number of	used		Event Description The Polar Express Extravaganza	
		adult tickets	EventID: 1.			-
		being	21/12/2019		Customer Information Seats and Costs	
		purchased is	CustomerID:1		Select Customer 13 🗸 * Select Seat Type Table 🗸	
		below the	3		Customer Louise Slater Seats Sold 36	
		acceptable	SeatTypeID:		Address 85 Swan Street Seats Left 4	
		range	1, Table		Fenstead Enter Seat Quantities	
		_	Adult: 0		FE3 7BL	
			Child: 0		TelephoneNumber +44 162312215	
					Cost Per Seat £29.00	
					Microsoft Access X Total Cost Adults £29.00	
					Total Cost Children £0.00	
					There must be at least one adult Overall Cost £29.00	
					Close	
2	V	-				
5	X	To ensure a	SaleID;	Error message to be		The error message did not display as I
5	X	sale cannot	SaleID; Autonumber	Error message to be displayed saying "There	SaleID 68	I he error message did not display as I expected. I realised that my validation
5	X	sale cannot be made	SaleID; Autonumber higher than	Error message to be displayed saying "There cannot be more than 8	SaleID 68 Select Date 21/12/2019 *	The error message did not display as I expected. I realised that my validation text was only suitable when less that 1
5	X	sale cannot be made where the	SaleID; Autonumber higher than currently	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID68Select Date21/12/2019 • •Event DescriptionThe Polar Express Extravaganza	The error message did not display as I expected. I realised that my validation text was only suitable when less that 1 was input.
5	X	sale cannot be made where the number of	SaleID; Autonumber higher than currently used	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID 68 Select Date 21/12/2019 * Event Description The Polar Express Extravaganza	I he error message did not display as I expected. I realised that my validation text was only suitable when less that 1 was input. NumAdults NumChild Number
5	X	sale cannot be made where the number of adult tickets	SaleID; Autonumber higher than currently used EventID: 1,	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID     68       Select Date     21/12/2019 • *       Event Description     The Polar Express Extravaganza       Customer Information     Seats and Costs       Select Customer     13 • *	Ihe error message did not display as I         expected. I realised that my validation         text was only suitable when less that 1         was input.         NumAdults         NumChild         Number         Field Proper
5	X	sale cannot be made where the number of adult tickets being	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID     68       Select Date     21/12/2019 • •       Event Description     The Polar Express Extravaganza       Customer Information     Seats and Costs       Select Customer     13 • •       Customer     Louise Slater	Ine error message did not display as I         expected. I realised that my validation         text was only suitable when less that 1         was input.         NumAdults         Number         Field Proper         General Lookup         Field Free
5	X	sale cannot be made where the number of adult tickets being purchased is	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID       68         Select Date       21/12/2019 • *         Event Description       The Polar Express Extravaganza         Customer Information       Seats and Costs         Select Customer       13 • *         Customer Louise Slater       Seats Sold         Address       85 Swan Street	The error message did not display as I         expected. I realised that my validation         text was only suitable when less that 1         was input.         NumAdults         Number         Field Proper         General Lookup         Field Size         Long Integer         Dermat         Dermat
3	X	sale cannot be made where the number of adult tickets being purchased is above the	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID       68         Select Date       21/12/2019 • *         Event Description       The Polar Express Extravaganza         Customer Information       Select Seat and Costs         Select Customer       13 • *         Customer       Louise Slater         Address       85 Swan Street         Fenstead       Extended	Ihe error message did not display as I         expected. I realised that my validation         text was only suitable when less that 1         was input.         NumAdults       Number         NumChild       Number         Field Proper         General Lookup         Field Size       Long Integer         Pormat       Decimal Places         Decimal Places       0         Input Mask       0
	X	sale cannot be made where the number of adult tickets being purchased is above the acceptable	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID:	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID       68         Select Date       21/12/2019 • *         Event Description       The Polar Express Extravaganza         Customer Information       Select Seats and Costs         Select Customer       13 • *         Customer Louise Slater       Select Seat Type         Address       85 Swan Street         Fenstead       Enter Seat Quantities         FE3 7BL       La # Child (2 12)	Ihe error message did not display as I         expected. I realised that my validation         text was only suitable when less that 1         was input.         NumAdults         NumChild         NumChild         Field Size         Long Integer         Format         Decimal Places         O         Input Mask         Caption Rule         Validation Rule
5	X	sale cannot be made where the number of adult tickets being purchased is above the acceptable range	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID: 1, Table	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID       68         Select Date       21/12/2019 • *         Event Description       The Polar Express Extravaganza         Customer Information       Select Customer         Select Customer       13 • *         Customer Louise Slater       Select Seat Type         Address       85 Swan Street         Fenstead       Enter Seat Quantities         FE3 7BL       Adult       9 * Child (2-12)         TelephoneNumber       +44 162312215	Ihe error message did not display as I         expected. I realised that my validation         text was only suitable when less that 1         was input.         NumAduits         NumAduits         Number         Field Size         Format         Decimal Places         Caption         Default Value         Validation Text         Usidation Text         There must be at least one aduit
5	X	sale cannot be made where the number of adult tickets being purchased is above the acceptable range	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID: 1, Table Adult: 9	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID       68         Select Date       21/12/2019 • *         Event Description       The Polar Express Extravaganza         Customer Information       Select Customer         Select Customer       13 • *         Customer Louise Slater       Select Seat Type Table •         Address       85 Swan Street         Fenstead       Fenstead         FE3 7BL       Adult 9 * Child (2-12) 0         TelephoneNumber       444 162312215	Ihe error message did not display as I         expected. I realised that my validation         text was only suitable when less that 1         was input.         NumAdults       Number         NumChild       Number         Field Size       Long Integer         Formal Places       0         Default Value       Is Not Null And Between 1 And 8         Validation Rule       Is Not Null And Between 1 And 8         Validation Text       There must be at least one adult
5	X	sale cannot be made where the number of adult tickets being purchased is above the acceptable range	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID: 1, Table Adult: 9 Child: 0	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID 68   Select Date 21/12/2019 *   Event Description The Polar Express Extravaganza     Customer Information   Select Customer 13 *   Customer Louise Slater   Address   85 Swan Street   Fenstead   FE3 7BL   TelephoneNumber   +44 162312215     Select Cust Adults   Customer     Customer   13 *   *   Customer   Louise Slater   Address   85 Swan Street   Fenstead   FE3 7BL   Cust Customer   Cust Customer   FE3 7BL   TelephoneNumber   FE3 7BL   Cust Cust Adults   FE3 7BL   TelephoneNumber   FE3 7BL   Cust Cust Cust Adults   FE3 7BL   FE3 7BL   FE3 7BL   Cust Cust Cust Adults   FE3 7BL   FE3 7BL	I he error message did not display as I         expected. I realised that my validation         text was only suitable when less that 1         was input.         NumAdults       Number         NumChild       Number         Field Size       Long Integer         Format       Decimal Places       0         Input Mask       0         Validation Rule       Is Not Null And Between 1 And 8         Validation Rule       No         I amended the text to be suitable for
	X	sale cannot be made where the number of adult tickets being purchased is above the acceptable range	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID: 1, Table Adult: 9 Child: 0	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID 68   Select Date 21/12/2019<*	Ihe error message did not display as I         expected. I realised that my validation         text was only suitable when less that 1         was input.         NumAdults         NumChild         NumChild         Field Size         Format         Decimal Places         O         Input Mask         Caption         Default Value         Validation Rule         Validation Rule         Validation Text         There must be at least one adult         I amended the text to be suitable for         the range so that is was clear what the
		sale cannot be made where the number of adult tickets being purchased is above the acceptable range	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID: 1, Table Adult: 9 Child: 0	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID 68   Select Date 21/12/2019<*	I he error message did not display as I expected. I realised that my validation text was only suitable when less that 1 was input. NumAdults Number Field Proper General Lookup Field Size Long Integer Format Decimal Places 0 Input Mask Caption Default Value Validation Rule Validation Rule Validation Rule I amended the text to be suitable for the range so that is was clear what the error was
	X	sale cannot be made where the number of adult tickets being purchased is above the acceptable range	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID: 1, Table Adult: 9 Child: 0	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID       68         Select Date       21/12/2019 • *         Event Description       The Polar Express Extravaganza         Customer Information         Select Customer       13 • *         Customer       Louise Slater         Address       85 Swan Street         Fenstead       Eater         FE3 7BL       Adult         TelephoneNumber       +44 162312215         Verall Cost Adults       £29.00         Total Cost Adults       £29.00         Total Cost Adults       £29.00         Overall Cost       £29.00         Verall Cost       £29.00	I he error message did not display as I expected. I realised that my validation text was only suitable when less that 1 was input. NumAdults Number Field Proper General Lookup Field Size Long Integer Format Decimal Places 0 Input Mask Caption Default Value Validation Rule Validation Text Num I amended the text to be suitable for the range so that is was clear what the error was
		sale cannot be made where the number of adult tickets being purchased is above the acceptable range	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID: 1, Table Adult: 9 Child: 0	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID       68         Select Date       21/12/2019 • *         Event Description       The Polar Express Extravaganza         Customer Information       Select Customer         Select Customer       13 • *         Customer Louise Slater       Select Seat Type Table •         Address       85 Swan Street         Feastead       Feastead         FE3 7BL       Adult • • Child (2-12) •         TelephoneNumber       444 162312215         Cost Per Seat       £29.00         Total Cost Adults       £29.00         Total Cost Children       £0.00         Overall Cost       £29.00         Total Cost Adults       £29.00         Total Cost Adults       £29.00         Total Cost Adults       £29.00         Total Cost Children       £0.00         Overall Cost       £29.00         Total Cost Adults       £29.00         Total Cost Adults       £29.00         Total Cost       £29.00         Save       There must be at least one adult	I he error message did not display as I expected. I realised that my validation text was only suitable when less that 1 was input. NumAdults Number Field Bize Conception Default Value Validation Rule Is Not Null And Between 1 And 8 Validation Rule Is Not Null And Between 1 And 8 Validation Text There must be at least one adult I amended the text to be suitable for the range so that is was clear what the error was Is Not Null And Between 1 And 8 There must be at least 1 adult and a maximum of 8
		sale cannot be made where the number of adult tickets being purchased is above the acceptable range	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID: 1, Table Adult: 9 Child: 0	Error message to be displayed saying "There cannot be more than 8 adults"	SaleID       68         Select Date       21/12/2019<*	I he error message did not display as I expected. I realised that my validation text was only suitable when less that 1 was input. NumAdults NumChild NumChi

					SaleID 83   Select Date 21/12/2019   Event Description The Polar Express Extravaganza     Customer Information Seats and Costs   Select Customer 13   Customer Louise Slater Select Seat Type Table    Address 85 Swan Street   Fenstead Enter Seat Quantities   Adult 9   Customer +44 162312215 Microsoft Access   Microsoft Access X   Microsoft Access X   Microsoft Access X
4	N To the r event custor inform appea when event custor been select ut	ensure relevant and mer nation rs and mer has ed/inp	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID: 1, Table Adult: 4 Child: 2	Event Description: The Polar Express Extravaganza Customer: Louise Slater Address 85 Swan Street Town: Fenstead Postcode: FE3 7BL Telephone Number: +44 162312215	SaleID       68         Select Date       21/12/2019 V *         Event Description       The Polar Express Extravaganza         Customer Information         Select Customer       13 V *         Customer       Cusies Slater         Address       85 Swan Street         Fenstead       FE3 7BL         TelephoneNumber       t44162312215         Voerall Cost Adults       £116.00         Total Cost Adults       £116.00         Total Cost Children       £52.20         Overall Cost       £168.20

5	N	<ul> <li>To ensure all costs are correct including</li> <li>Cost per seat</li> <li>Total cost for adults</li> <li>Total cost for children</li> <li>Overall cost</li> </ul>	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 3 SeatTypeID: 1, Table Adult: 4 Child: 2	Cost per seat: £29.00 Total Cost Adults: 4 x 29 = £116.00 Total Cost Children: (2*29.00)- (2x29.00*0.1)=£52.50 Overall Cost= £116.00+£52.50=£168. 20	SaleID       68         Select Date       21/12/2019 • *         Event Description       The Polar Express Extravaganza         Customer Information       Select Customer         Select Customer       13 • *         Customer Louise Slater       Select Seat Type Table •         Address       85 Swan Street         Fenstead       Seats Cold         FE3 7BL       Cost Per Seat Quantities         Adult       4 * Child (2-12)         Cost Per Seat       £29.00         Total Cost Adults       £116.00         Total Cost Children       £52.20         Overall Cost       £168.20
6	N	To ensure a valid sale saves correctly	SaleID; Autonumber higher than currently used EventID: 1, 21/12/2019 CustomerID:1 2 SeatTypeID: 1, Table Adult: 2 Child: 2	Record to be saved in tblSale with an autonumber higher than the last used. Message to be displayed saying "The sale has been saved" Form to clear	Add Sale ×       It blSeatSales ×         SeatSaleID +       CustomerID +       SeatTypeID +       NumAdults +       NumChild +       Cli         66       3       113       2       1       3         65       3       109       2       1       1         64       3       134       2       2       4         63       3       132       2       2       2

Add Sale X Select the Date, Customer and Seat Type. Enter the number of Adult and Children's tickets required The SaleID will be generated for you. Click Save to save the sale. If no dates appear in the list of dates all events are sold out.	
SaleID       69         Select Date       21/12/2019 • •         Event Description       The Polar Express Extravaganza         Customer Information         Select Customer       12 • •         Customer       Christopher Lyon         Address       22 Foundry Lane         Lower Marsdon       DL9 2AW         TelephoneNumber       +44 158933633         Solution       Cost Per Seat         Cost Cost Children       £52.20         Overall Cost E110.20         Save	2



## **Activity 5 - Evaluation**

No evaluation included as centres sometimes coach learners to produce the evaluation using exactly the format given or learners think they must produce their evaluation to exactly the format given. Evaluations must be relevant to their solution and the scenario/task requirements.

Scripts A and B include examples of evaluations seen.