

**Unit 2 Creating Systems to Manage
Information
2019 new format**



**Level 3 National in
Information Technology**

January 2019 New Format

Example Solution

Contents

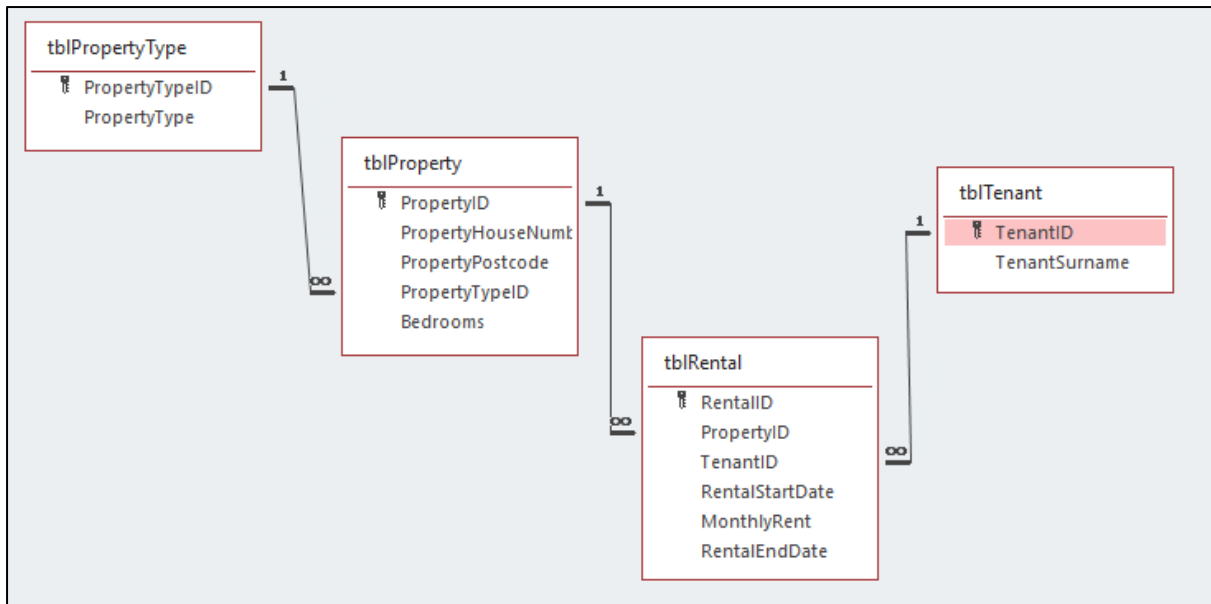
Introduction.....	3
Activity 1 – Database relationship screenprint.....	5
Activity 2 – Table structures.....	6
Activity 3 – Queries and report.....	7
Activity 4 – Structure testing.....	10
Activity 5 – Structure evaluation.....	15
Activity 6 – Interface and functionality.....	17
Activity 7 – Interface and functionality testing.....	21
Activity 8 – Interface evaluation.....	29

Introduction

The solution must be used alongside the marking guidance document and Scripts A and B. Very few comments/explanations will appear in this document so in order to fully understand the approach and how to mark, the other documents must be considered too.

Part A

Activity 1 – Database relationship screenprint



Activity 2 – Table structures

tblProperty	
Field Name	Data Type
PropertyID	AutoNumber
PropertyHouseNumber	Short Text
PropertyPostcode	Short Text
PropertyTypeID	Number
Bedrooms	Number

tblPropertyType	
Field Name	Data Type
PropertyTypeID	AutoNumber
PropertyType	Short Text

tblRental	
Field Name	Data Type
RentalID	Number
PropertyID	Number
TenantID	Short Text
RentalStartDate	Date/Time
MonthlyRent	Currency
RentalEndDate	Date/Time

tblTenant	
Field Name	Data Type
TenantID	Short Text
TenantSurname	Short Text

Presence check, length check and format check

tblProperty	
Field Name	Data Type
PropertyID	AutoNumber
PropertyHouseNumber	Short Text
PropertyPostcode	Short Text

Field Properties

General	
Field Size	7
Format	
Input Mask	>LLO\ OLL
Caption	
Default Value	
Validation Rule	Is Not Null
Validation Text	You must enter the property postcode

Range check

tblProperty	
Field Name	Data Type
PropertyID	AutoNumber
PropertyHouseNumber	Short Text
PropertyPostcode	Short Text
PropertyTypeID	Number
Bedrooms	Number

Field Properties

General	
Field Size	Long Integer
Format	
Decimal Places	Auto
Input Mask	
Caption	
Default Value	0
Validation Rule	>= 1 And <= 5
Validation Text	Bedrooms must be between 1 and 5
Required	No

Table lookup

tblRental	
Field Name	Data Type
RentalID	Number
PropertyID	Number
TenantID	Short Text

Field Properties

General	
Display Control	Combo Box
Row Source Type	Table/Query
Row Source	SELECT [tblTenant].[TenantID], [tblTenant].[TenantSurname]
Bound Column	1
Column Count	2
Column Heads	No
Column Widths	1.508cm;3.387cm
List Rows	16
List Width	4.894cm
Limit To List	Yes

Activity 3 – Queries and report

Any criterion used that produces the correct results is acceptable

Query 1

Field:	PropertyPostcode	MonthlyRent	Bedrooms	RentalEndDate
Table:	tblProperty	tblRental	tblProperty	tblRental
Sort:	Ascending			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Criteria:			>= 3	Is Null
or:				

PropertyPostcode	MonthlyRent
BV2 8ZV	£294.67
BV3 8CV	£843.00

Query 2

Field:	PropertyPostcode	RentalLength: Int(DateDiff("m",[rentalstartdate],[rentalenddate])/12)	TotalIncome: [MonthlyRent]*12*[RentalLength]
Table:	tblProperty		
Total:	Group By	Expression	Expression
Sort:			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:			
or:			

RentalStartDate	RentalEndDate	MonthlyRent
tblRental	tblRental	tblRental
Group By	Group By	Group By
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	Is Not Null	

PropertyPostcode	RentalLength	TotalIncome
BV0 6DJ	6	£35,904.24
BV1 3UN	2	£11,959.92
BV2 1GC	8	£61,567.68
BV2 2CK	1	£8,788.08

Report

qryReport

tblRental

*

- RentalID
- PropertyID
- TenantID
- RentalStartDate
- MonthlyRent
- RentalEndDate

tblProperty

*

- PropertyID
- PropertyHouseNumt
- PropertyPostcode
- PropertyTypeID
- Bedrooms

tblPropertyType

*

- PropertyTypeID
- PropertyType

Field:	PropertyID	PropertyHouseNumber	PropertyPostcode	PropertyType	NumberRentals: RentalID
Table:	tblProperty	tblProperty	tblProperty	tblPropertyType	tblRental
Total:	Group By	Group By	Group By	Group By	Count
Sort:					
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:					

HighestRent: MonthlyRent	LowestRent: MonthlyRent
tblRental	tblRental
Max	Min
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

qryReport

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

Report Header

Property Rentals

Page Header

House Number	Postcode	Property Type	Number Of Rentals	Highest Rent	Lowest Rent
--------------	----------	---------------	-------------------	--------------	-------------

Detail

Property	PropertyPostco	PropertyType	umberRent	HighestRent	LowestRent
----------	----------------	--------------	-----------	-------------	------------

Page Footer

Report Footer

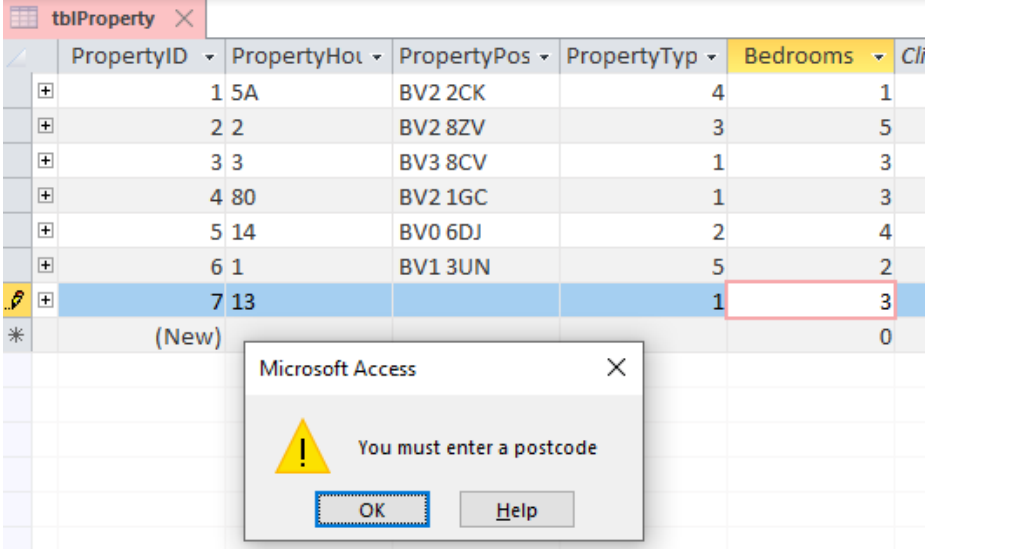
Total Rentals Overall	=Sum([NumberRentals])
Highest Rent Overall	=Max([HighestRent])
Lowest Rent Overall	=Min([LowestRent])

Screenprint of report for illustration only. Needs to be a pdf of the report that is exported from the database

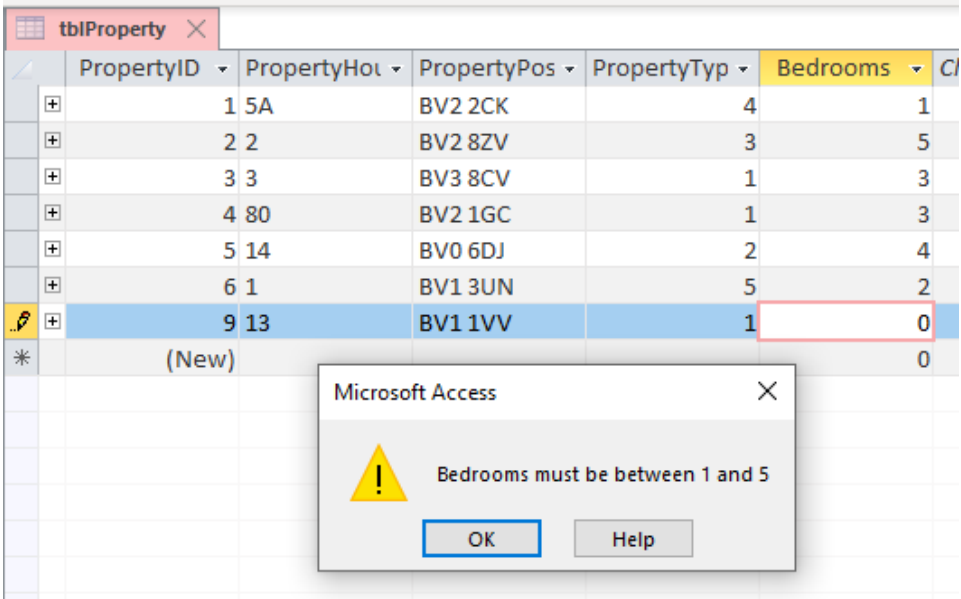
Property Rentals					
House Number	Postcode	Property Type	Number Of Rentals	Highest Rent	Lowest Rent
5A	BV2 2CK	Detached bungalow	2	£850.00	£732.34
2	BV2 8ZV	Terraced house	1	£294.67	£294.67
3	BV3 8CV	Detached house	1	£843.00	£843.00
80	BV2 1GC	Detached house	1	£641.33	£641.33
14	BV0 6DJ	Semi detached house	1	£498.67	£498.67
1	BV1 3UN	Semi detached bungalow	1	£498.33	£498.33
				Total Rentals Overall	7
				Highest Rent Overall	£850.00
				Lowest Rent Overall	£294.67

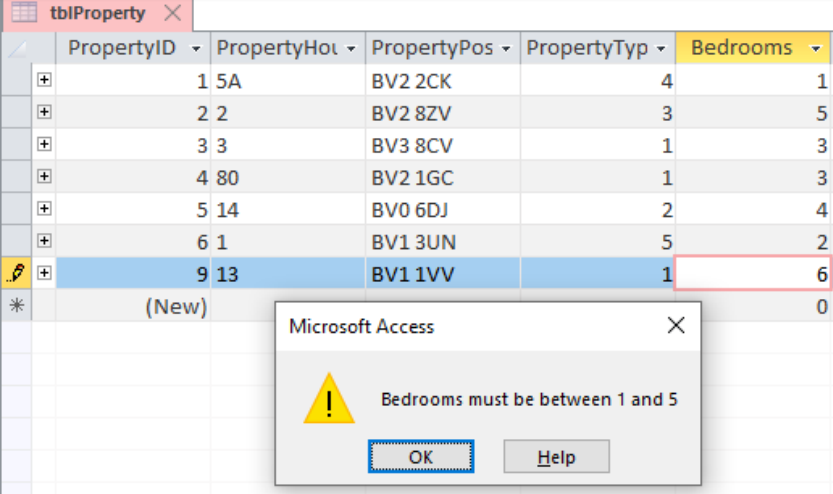
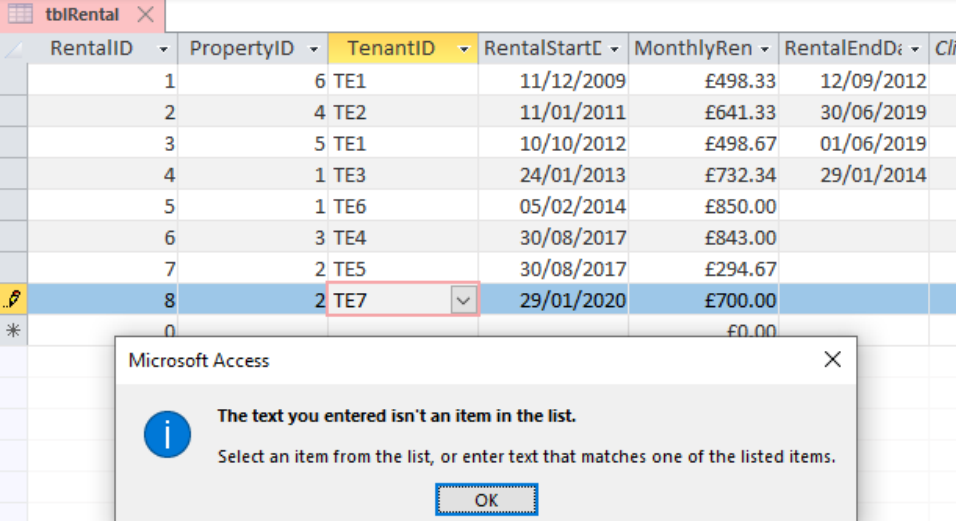
Activity 4 – Structure testing

Note the last two columns have been merged as the solution document is sized to A4 rather than A3. This is to ensure the contents can be seen and read.

Test No	Type of test (N, R, X)	Test data	Expected results	Add screenprint(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)																																																						
1	R	PropertyID: Autonumber PropertyHouseNumber: 13 PropertyPostcode: blank PropertyTypeID: 1 Bedrooms: 3	Error message to appear saying the postcode must be entered	 <p>The screenshot shows a Microsoft Access data table named 'tblProperty'. The table has columns: PropertyID, PropertyHouseNumber, PropertyPostcode, PropertyTypeID, Bedrooms, and ClientID. The data is as follows:</p> <table border="1"> <thead> <tr> <th>PropertyID</th> <th>PropertyHouseNumber</th> <th>PropertyPostcode</th> <th>PropertyTypeID</th> <th>Bedrooms</th> <th>ClientID</th> </tr> </thead> <tbody> <tr><td>1</td><td>5A</td><td>BV2 2CK</td><td>4</td><td>1</td><td></td></tr> <tr><td>2</td><td>2</td><td>BV2 8ZV</td><td>3</td><td>5</td><td></td></tr> <tr><td>3</td><td>3</td><td>BV3 8CV</td><td>1</td><td>3</td><td></td></tr> <tr><td>4</td><td>80</td><td>BV2 1GC</td><td>1</td><td>3</td><td></td></tr> <tr><td>5</td><td>14</td><td>BV0 6DJ</td><td>2</td><td>4</td><td></td></tr> <tr><td>6</td><td>1</td><td>BV1 3UN</td><td>5</td><td>2</td><td></td></tr> <tr><td>7</td><td>13</td><td></td><td>1</td><td>3</td><td></td></tr> <tr><td>(New)</td><td></td><td></td><td></td><td>0</td><td></td></tr> </tbody> </table> <p>An error message dialog box is displayed over the table, stating: "Microsoft Access: You must enter a postcode". The dialog has "OK" and "Help" buttons. The error message is triggered because the 'PropertyPostcode' field is blank for the record with PropertyID 7.</p>	PropertyID	PropertyHouseNumber	PropertyPostcode	PropertyTypeID	Bedrooms	ClientID	1	5A	BV2 2CK	4	1		2	2	BV2 8ZV	3	5		3	3	BV3 8CV	1	3		4	80	BV2 1GC	1	3		5	14	BV0 6DJ	2	4		6	1	BV1 3UN	5	2		7	13		1	3		(New)				0	
PropertyID	PropertyHouseNumber	PropertyPostcode	PropertyTypeID	Bedrooms	ClientID																																																					
1	5A	BV2 2CK	4	1																																																						
2	2	BV2 8ZV	3	5																																																						
3	3	BV3 8CV	1	3																																																						
4	80	BV2 1GC	1	3																																																						
5	14	BV0 6DJ	2	4																																																						
6	1	BV1 3UN	5	2																																																						
7	13		1	3																																																						
(New)				0																																																						

Test No	Type of test (N, R, X)	Test data	Expected results	Add screenprint(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)																																																
2	R	PropertyID: Autonumber PropertyHouseNumber: 13 PropertyPostcode: BB1 9BB PropertyTypeID: 0 Bedrooms: 3	Error message to appear saying the text entered is not in the list and that an item from the list has to be selected	<table border="1"> <thead> <tr> <th>PropertyID</th> <th>PropertyHouseNumber</th> <th>PropertyPostcode</th> <th>PropertyTypeID</th> <th>Bedrooms</th> <th>Click to</th> </tr> </thead> <tbody> <tr><td>1</td><td>5A</td><td>BV2 2CK</td><td>4</td><td>1</td><td></td></tr> <tr><td>2</td><td>2</td><td>BV2 8ZV</td><td>3</td><td>5</td><td></td></tr> <tr><td>3</td><td>3</td><td>BV3 8CV</td><td>1</td><td>3</td><td></td></tr> <tr><td>4</td><td>80</td><td>BV2 1GC</td><td>1</td><td>3</td><td></td></tr> <tr><td>5</td><td>14</td><td>BV0 6DJ</td><td>2</td><td>4</td><td></td></tr> <tr><td>6</td><td>1</td><td>BV1 3UN</td><td>5</td><td>2</td><td></td></tr> <tr><td>10</td><td>13</td><td>BB1 9BB</td><td>0</td><td>3</td><td></td></tr> </tbody> </table> <p>Microsoft Access</p> <p>The text you entered isn't an item in the list.</p> <p>Select an item from the list, or enter text that matches one of the listed items.</p> <p>OK</p>	PropertyID	PropertyHouseNumber	PropertyPostcode	PropertyTypeID	Bedrooms	Click to	1	5A	BV2 2CK	4	1		2	2	BV2 8ZV	3	5		3	3	BV3 8CV	1	3		4	80	BV2 1GC	1	3		5	14	BV0 6DJ	2	4		6	1	BV1 3UN	5	2		10	13	BB1 9BB	0	3	
PropertyID	PropertyHouseNumber	PropertyPostcode	PropertyTypeID	Bedrooms	Click to																																															
1	5A	BV2 2CK	4	1																																																
2	2	BV2 8ZV	3	5																																																
3	3	BV3 8CV	1	3																																																
4	80	BV2 1GC	1	3																																																
5	14	BV0 6DJ	2	4																																																
6	1	BV1 3UN	5	2																																																
10	13	BB1 9BB	0	3																																																

3	X*	PropertyID: Autonumber PropertyHouseNumber: 13 PropertyPostcode: BV1 1VV PropertyTypeID: 1 Bedrooms: 0	Error message to appear to say the bedrooms must be between 1 and 5	 <p>The screenshot shows a Microsoft Access window with a table named 'tblProperty'. The table has the following data:</p> <table border="1"> <thead> <tr> <th>PropertyID</th> <th>PropertyHouseNumber</th> <th>PropertyPostcode</th> <th>PropertyTypeID</th> <th>Bedrooms</th> </tr> </thead> <tbody> <tr><td>1</td><td>5A</td><td>BV2 2CK</td><td>4</td><td>1</td></tr> <tr><td>2</td><td>2</td><td>BV2 8ZV</td><td>3</td><td>5</td></tr> <tr><td>3</td><td>3</td><td>BV3 8CV</td><td>1</td><td>3</td></tr> <tr><td>4</td><td>80</td><td>BV2 1GC</td><td>1</td><td>3</td></tr> <tr><td>5</td><td>14</td><td>BV0 6DJ</td><td>2</td><td>4</td></tr> <tr><td>6</td><td>1</td><td>BV1 3UN</td><td>5</td><td>2</td></tr> <tr><td>9</td><td>13</td><td>BV1 1VV</td><td>1</td><td>0</td></tr> <tr><td>(New)</td><td></td><td></td><td></td><td>0</td></tr> </tbody> </table> <p>An error dialog box is displayed over the table, titled 'Microsoft Access'. It contains a yellow warning triangle icon and the text 'Bedrooms must be between 1 and 5'. There are 'OK' and 'Help' buttons at the bottom of the dialog box.</p>	PropertyID	PropertyHouseNumber	PropertyPostcode	PropertyTypeID	Bedrooms	1	5A	BV2 2CK	4	1	2	2	BV2 8ZV	3	5	3	3	BV3 8CV	1	3	4	80	BV2 1GC	1	3	5	14	BV0 6DJ	2	4	6	1	BV1 3UN	5	2	9	13	BV1 1VV	1	0	(New)				0
PropertyID	PropertyHouseNumber	PropertyPostcode	PropertyTypeID	Bedrooms																																													
1	5A	BV2 2CK	4	1																																													
2	2	BV2 8ZV	3	5																																													
3	3	BV3 8CV	1	3																																													
4	80	BV2 1GC	1	3																																													
5	14	BV0 6DJ	2	4																																													
6	1	BV1 3UN	5	2																																													
9	13	BV1 1VV	1	0																																													
(New)				0																																													
Test No	Type of test (N, R, X)	Test data	Expected results	Add screenprint(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)																																													

4	X*	PropertyID: Autonumber PropertyHouseNumber: 13 PropertyPostcode: BV1 1VV PropertyTypeID: 1 Bedrooms: 6	Error message to appear to say the bedrooms must be between 1 and 5	 <table border="1" data-bbox="1019 199 1848 694"> <thead> <tr> <th>PropertyID</th> <th>PropertyHouseNumber</th> <th>PropertyPostcode</th> <th>PropertyTypeID</th> <th>Bedrooms</th> </tr> </thead> <tbody> <tr><td>1</td><td>5A</td><td>BV2 2CK</td><td>4</td><td>1</td></tr> <tr><td>2</td><td>2</td><td>BV2 8ZV</td><td>3</td><td>5</td></tr> <tr><td>3</td><td>3</td><td>BV3 8CV</td><td>1</td><td>3</td></tr> <tr><td>4</td><td>80</td><td>BV2 1GC</td><td>1</td><td>3</td></tr> <tr><td>5</td><td>14</td><td>BV0 6DJ</td><td>2</td><td>4</td></tr> <tr><td>6</td><td>1</td><td>BV1 3UN</td><td>5</td><td>2</td></tr> <tr><td>9</td><td>13</td><td>BV1 1VV</td><td>1</td><td>6</td></tr> <tr><td>(New)</td><td></td><td></td><td></td><td>0</td></tr> </tbody> </table>	PropertyID	PropertyHouseNumber	PropertyPostcode	PropertyTypeID	Bedrooms	1	5A	BV2 2CK	4	1	2	2	BV2 8ZV	3	5	3	3	BV3 8CV	1	3	4	80	BV2 1GC	1	3	5	14	BV0 6DJ	2	4	6	1	BV1 3UN	5	2	9	13	BV1 1VV	1	6	(New)				0																									
PropertyID	PropertyHouseNumber	PropertyPostcode	PropertyTypeID	Bedrooms																																																																						
1	5A	BV2 2CK	4	1																																																																						
2	2	BV2 8ZV	3	5																																																																						
3	3	BV3 8CV	1	3																																																																						
4	80	BV2 1GC	1	3																																																																						
5	14	BV0 6DJ	2	4																																																																						
6	1	BV1 3UN	5	2																																																																						
9	13	BV1 1VV	1	6																																																																						
(New)				0																																																																						
5	X*	RentalID: Autonumber PropertyID: 2 TenantID: TE7 RentalStartDate: 29/01/2020 MonthlyRent: 700 RentalEndDate: Blank	Default error message to appear saying the text entered is not in the list	 <table border="1" data-bbox="1019 713 1971 1236"> <thead> <tr> <th>RentalID</th> <th>PropertyID</th> <th>TenantID</th> <th>RentalStartDate</th> <th>MonthlyRent</th> <th>RentalEndDate</th> <th>ClientID</th> </tr> </thead> <tbody> <tr><td>1</td><td>6</td><td>TE1</td><td>11/12/2009</td><td>£498.33</td><td>12/09/2012</td><td></td></tr> <tr><td>2</td><td>4</td><td>TE2</td><td>11/01/2011</td><td>£641.33</td><td>30/06/2019</td><td></td></tr> <tr><td>3</td><td>5</td><td>TE1</td><td>10/10/2012</td><td>£498.67</td><td>01/06/2019</td><td></td></tr> <tr><td>4</td><td>1</td><td>TE3</td><td>24/01/2013</td><td>£732.34</td><td>29/01/2014</td><td></td></tr> <tr><td>5</td><td>1</td><td>TE6</td><td>05/02/2014</td><td>£850.00</td><td></td><td></td></tr> <tr><td>6</td><td>3</td><td>TE4</td><td>30/08/2017</td><td>£843.00</td><td></td><td></td></tr> <tr><td>7</td><td>2</td><td>TE5</td><td>30/08/2017</td><td>£294.67</td><td></td><td></td></tr> <tr><td>8</td><td>2</td><td>TE7</td><td>29/01/2020</td><td>£700.00</td><td></td><td></td></tr> <tr><td>0</td><td></td><td></td><td></td><td>£0.00</td><td></td><td></td></tr> </tbody> </table>	RentalID	PropertyID	TenantID	RentalStartDate	MonthlyRent	RentalEndDate	ClientID	1	6	TE1	11/12/2009	£498.33	12/09/2012		2	4	TE2	11/01/2011	£641.33	30/06/2019		3	5	TE1	10/10/2012	£498.67	01/06/2019		4	1	TE3	24/01/2013	£732.34	29/01/2014		5	1	TE6	05/02/2014	£850.00			6	3	TE4	30/08/2017	£843.00			7	2	TE5	30/08/2017	£294.67			8	2	TE7	29/01/2020	£700.00			0				£0.00		
RentalID	PropertyID	TenantID	RentalStartDate	MonthlyRent	RentalEndDate	ClientID																																																																				
1	6	TE1	11/12/2009	£498.33	12/09/2012																																																																					
2	4	TE2	11/01/2011	£641.33	30/06/2019																																																																					
3	5	TE1	10/10/2012	£498.67	01/06/2019																																																																					
4	1	TE3	24/01/2013	£732.34	29/01/2014																																																																					
5	1	TE6	05/02/2014	£850.00																																																																						
6	3	TE4	30/08/2017	£843.00																																																																						
7	2	TE5	30/08/2017	£294.67																																																																						
8	2	TE7	29/01/2020	£700.00																																																																						
0				£0.00																																																																						

Test No	Type of test (N, R, X)	Test data	Expected results	Add screenprint(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)
6	R**	RentalID: Autonumber PropertyID: 7 TenantID: TE6 RentalStartDate: 29/01/2020 MonthlyRent: 700 RentalEndDate: Blank	Default error message to appear saying the text entered is not in the list	

* Candidates may use R in place of X where indicated – see Lead Examiner report Jan 2020

Activity 5 – Structure evaluation

No evaluation included. See the examples discussed in Script A and Script B.

Also see discussions of the examples in the Lead Examiner report and scripts for the live January 2020 examination.

Part B

Activity 6 – Interface and functionality

Owner form

Property Sheet

Selection type: Form

Form

Format	Data	Event	Other	All
Record Source	tblOwner			
Recordset Type	Dynaset			
Fetch Defaults	Yes			
Filter				
Filter On Load	No			
Order By				
Order By On Load	Yes			
Wait for Post Processing	No			
Data Entry	Yes			

Code solution

```

Private Sub cmdSave_Click()
    If IsNull(OwnerSurname) Then
        MsgBox "You must enter a surname", vbOKOnly
    ElseIf BranchID.ListIndex = -1 Then
        MsgBox "You must select a branch", vbOKOnly
    ElseIf NumProperties < 1 Or NumProperties > 10 Then
        MsgBox "The number of properties must be between 1 and 10 inclusive", vbOKOnly
    Else
        DoCmd.Save
        MsgBox "The owner details have been saved", vbOKOnly
        DoCmd.GoToRecord , , acNewRec
    End If
End Sub

```

Macro Solution

```
frmOwner frmOwner : cmdSave : On Click X
┌ If IsNull([OwnerSurname]) Then
│   ┌ MessageBox
│   │   Message You must enter a surname
│   │   Beep Yes
│   │   Type None
│   │   Title
│   └ Else If [BranchID].[ListIndex]=-1 Then
│       ┌ MessageBox
│       │   Message You must select a branch
│       │   Beep Yes
│       │   Type None
│       │   Title
│       └ Else If [NumProperties]<1 Or [NumProperties]>10 Then
│           ┌ MessageBox
│           │   Message The number of properties must be between 1 and 10
│           │   Beep Yes
│           │   Type None
│           │   Title
│           └ Else
│               ┌ RunMenuCommand
│               │   Command SaveRecord
│               └ MessageBox
│                   Message The owner details have been saved
│                   Beep Yes
│                   Type None
│                   Title
│               ┌ GoToRecord
│               │   Object Type
│               │   Object Name
│               │   Record New
│               │   Offset
│               └ End If
```

Management fee form

Update Fee X

Management Fee Increase

Select the branch and then enter the increase as a whole number e.g. 10

Select the branch *

Town

Manager

Current management fee

Potential increase % *

New fee

Yearly income

frmUpdate X

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16

Form Header

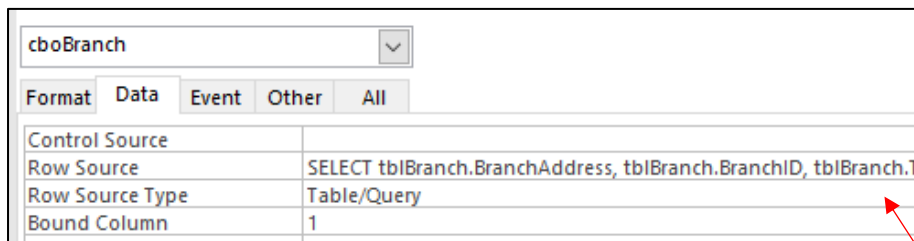
Management Fee Increase

Select the branch and then enter the increase as a whole number e.g. 10

Detail

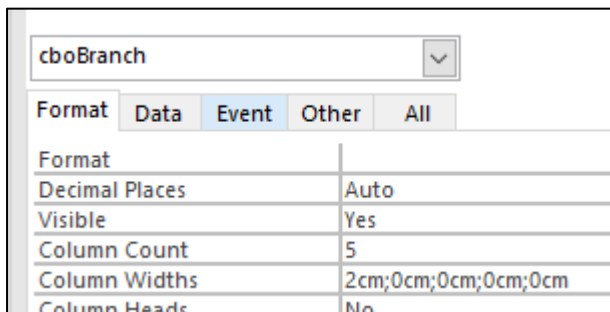
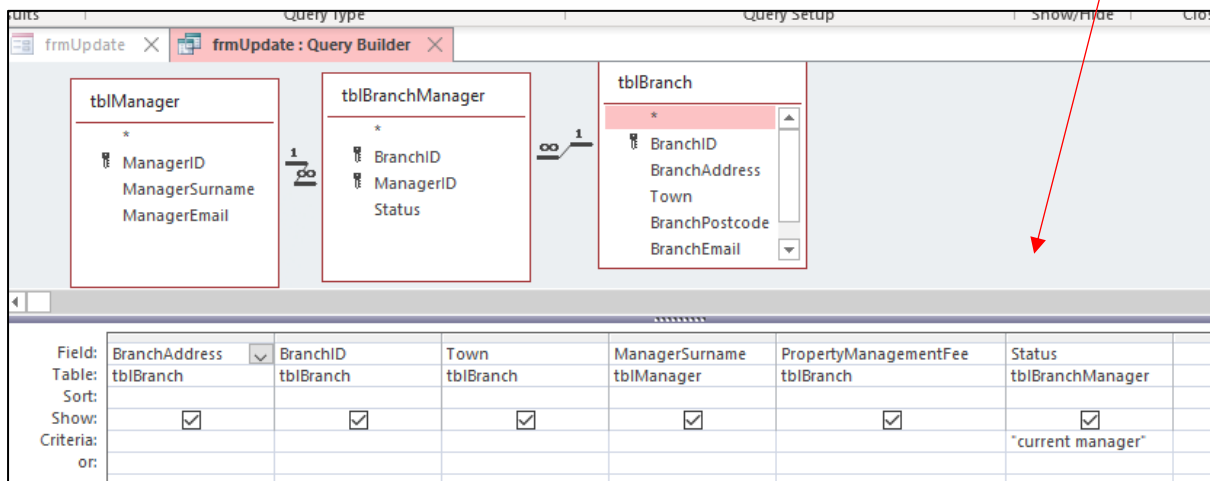
Select the branch	Unbound	<input type="text"/> *	1
Town	=[cboBranch].[column](2)		
Manager	=[cboBranch].[column](3)		
Current management fee	=FormatCurrency([cboBranch].[column](4),2)		
Potential increase %	nbound	<input type="text"/> *	
New fee	=[managementfee]+[managementfee]/100*[percentageincrease]		
Yearly income	=[newfee]*12		

1
2
3
4
5
6

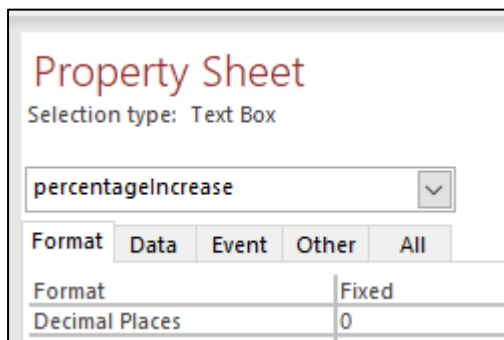


1
This is the source of the combo box

This is the source of the combo box shown in more detail:



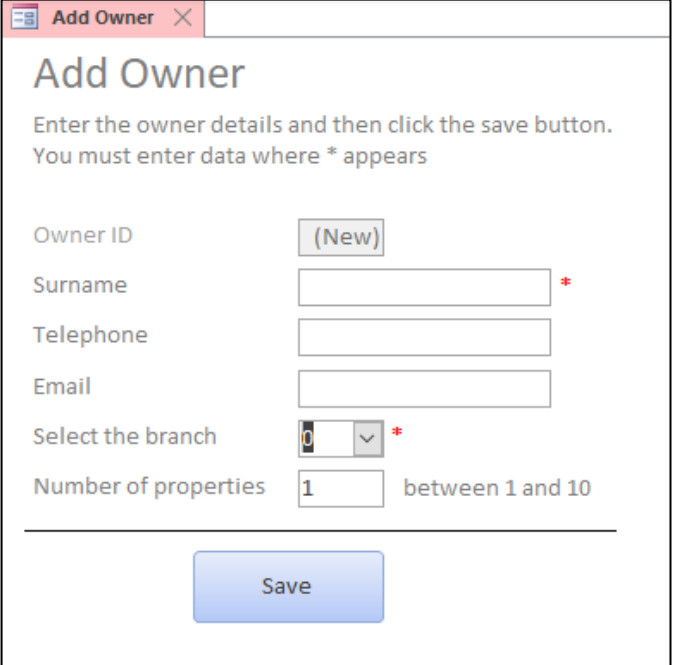
This shows that the branch combo box includes the first five columns in the query shown above all but the first one is hidden. The process is automated by linking the fields on the form to the hidden columns so that when the branch is selected the fields update to show what is in the column

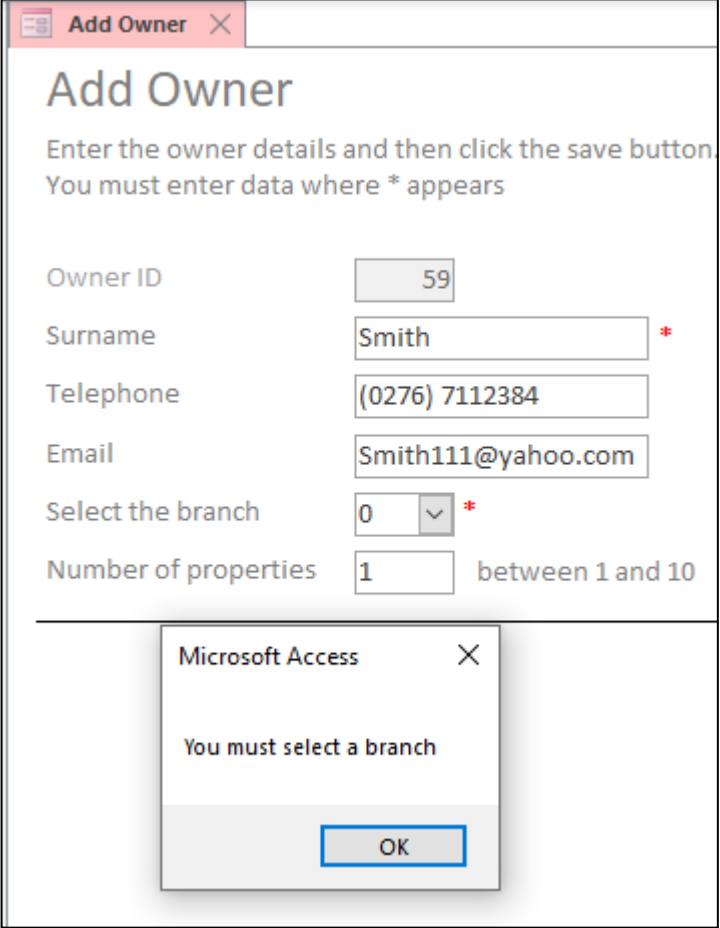


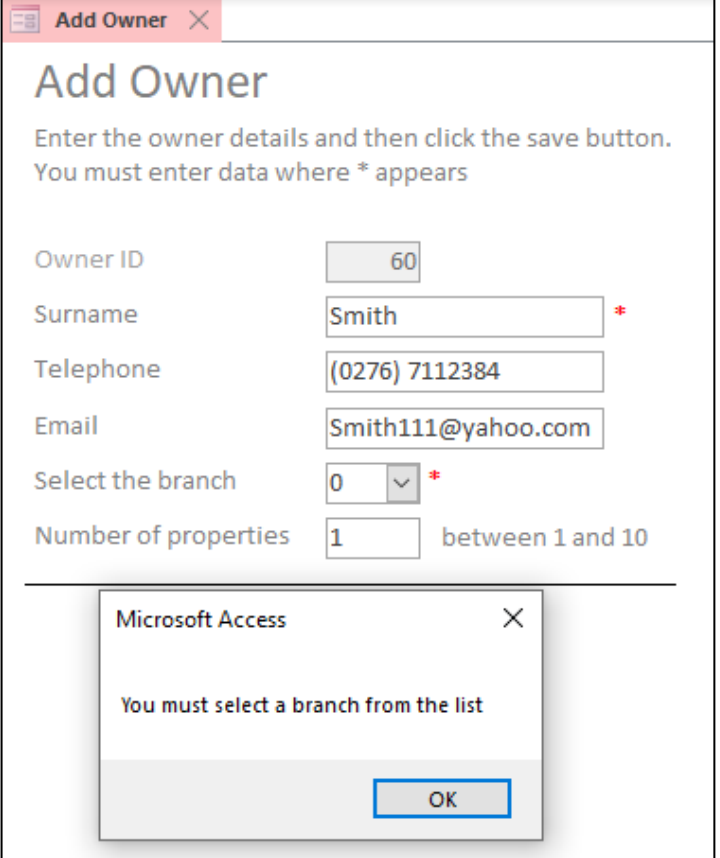
This shows the percentage increase has been limited to whole numbers.

Activity 7 – Interface and functionality testing

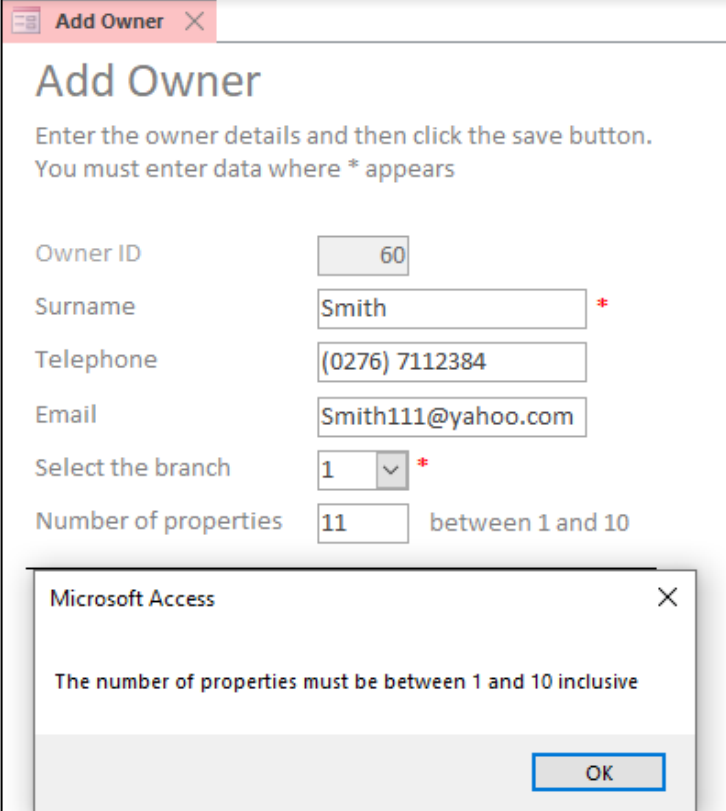
Note the last two columns have been merged as the solution document is sized to A4 rather than A3. This is to ensure the contents can be seen and read.

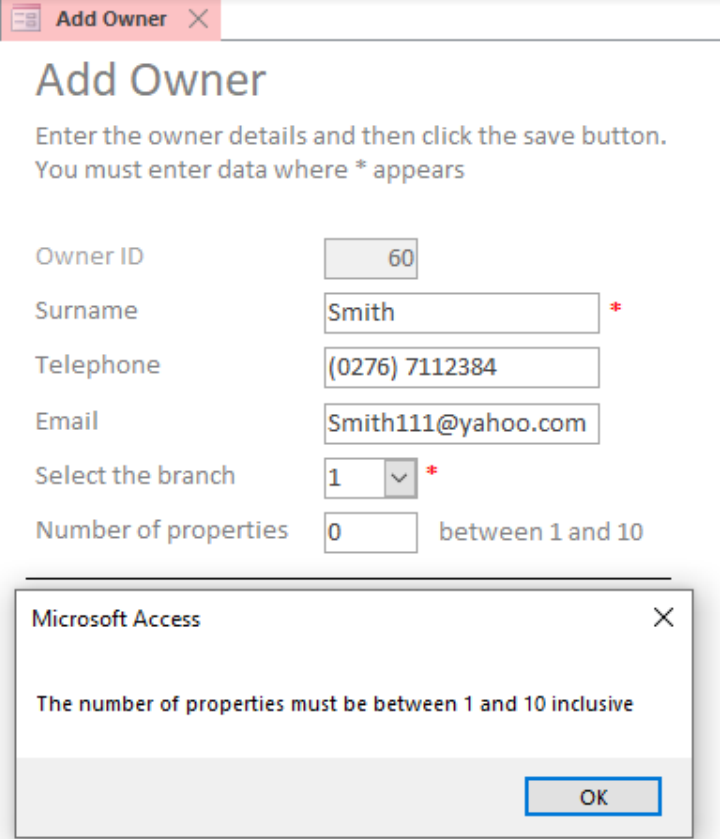
Test Num	Type of test	Test data	Expected results	Add screenprint(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)
1	N	Open form	Blank form to be displayed	

Test Num	Type of test	Test data	Expected results	Add screenprint(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)
2	X	OwnerID: AutoNumber Surname: Smith Telephone: (0276) 7112384 Email: Smith111@yahoo.com BranchID: 0 NumProperties: 1	Error message to appear saying you must select a branch from this list	 <p>The screenshot shows a web form titled "Add Owner" with the following fields: Owner ID (59), Surname (Smith), Telephone ((0276) 7112384), Email (Smith111@yahoo.com), Select the branch (0), and Number of properties (1). The Surname and Select the branch fields have red asterisks indicating they are required. Below the form, a "Microsoft Access" dialog box is displayed with the message "You must select a branch" and an "OK" button.</p> <pre> lseIf BranchID.ListIndex = -1 Then MsgBox "You must select a branch from the list", vbOKOnly lseIf NumProperties < 1 Or NumProperties > 10 Then </pre>

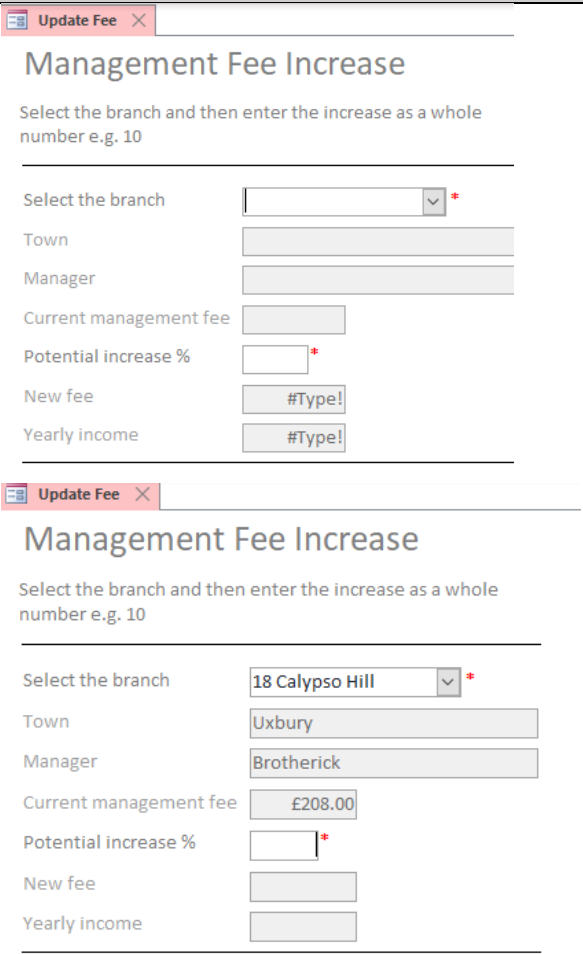
				 <p>The screenshot shows a web form titled "Add Owner" with the following fields and values:</p> <ul style="list-style-type: none">Owner ID: 60Surname: Smith *Telephone: (0276) 7112384Email: Smith111@yahoo.comSelect the branch: 0 *Number of properties: 1 between 1 and 10 <p>An error message dialog box is displayed over the form, titled "Microsoft Access" with the text "You must select a branch from the list" and an "OK" button.</p>
--	--	--	--	--

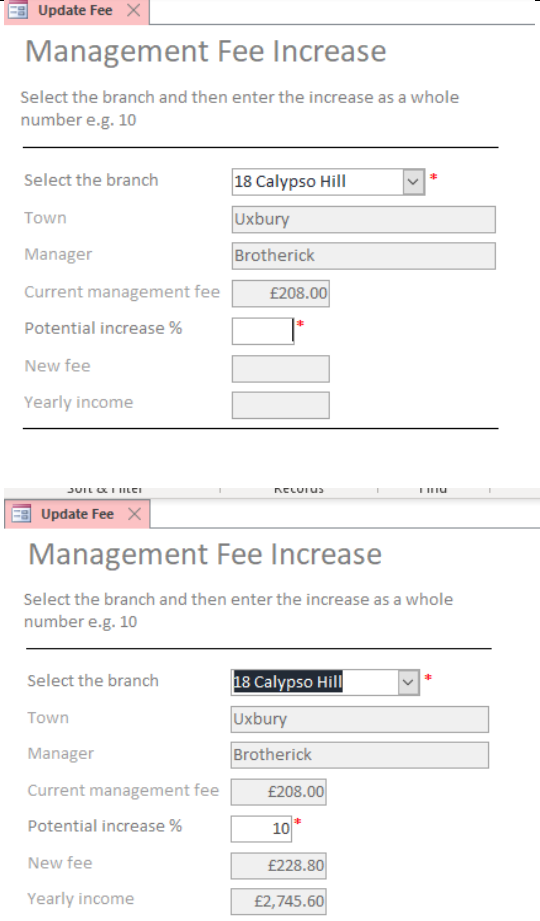
The error message only said select a branch, which could have been confusing so I amended to say from the list

Test Num	Type of test	Test data	Expected results	Add screenshot(s) of the results of this test (and any retests) Ensure you show the test data used in the screenshot(s)
3	X*	OwnerID: AutoNumber Surname: Smith Telephone: (0276) 7112384 Email: Smith111@yahoo.com BranchID: 1 NumProperties: 11	Error message to be displayed saying the number of properties has to be between 1 and 10	 <p>The screenshot shows a web application window titled "Add Owner". The form contains the following fields: "Owner ID" (60), "Surname" (Smith), "Telephone" ((0276) 7112384), "Email" (Smith111@yahoo.com), "Select the branch" (1), and "Number of properties" (11). The "Number of properties" field has a validation message "between 1 and 10". A red asterisk is visible next to the "Surname" and "Select the branch" fields. An error dialog box titled "Microsoft Access" is overlaid on the form, displaying the message "The number of properties must be between 1 and 10 inclusive" and an "OK" button.</p>

Test Num	Type of test	Test data	Expected results	Add screenshot(s) of the results of this test (and any retests) Ensure you show the test data used in the screenshot(s)
4	X*	OwnerID: AutoNumber Surname: Smith Telephone: (0276) 7112384 Email: Smith111@yahoo.com BranchID: 1 NumProperties: 0	Error message to be displayed saying the number of properties has to be between 1 and 10	 <p>The screenshot shows a web form titled "Add Owner" with the following fields: Owner ID (60), Surname (Smith), Telephone ((0276) 7112384), Email (Smith111@yahoo.com), Select the branch (1), and Number of properties (0). The "Number of properties" field has a validation message "between 1 and 10". An error message dialog box is displayed over the form, stating "The number of properties must be between 1 and 10 inclusive" with an "OK" button.</p>

Test Num	Type of test	Test data	Expected results	Add screenshot(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)																												
5	N	OwnerID: AutoNumber Surname: Smith Telephone: (0276) 7112384 Email: Smith111@yahoo.com BranchID: 1 NumProperties: 5	For the record to be saved in the owner table, a message to appear saying it has been saved and the form to clear	<table border="1"> <thead> <tr> <th>OwnerID</th> <th>OwnerEmail</th> <th>OwnerTelephone</th> <th>OwnerSurname</th> <th>BranchID</th> <th>NumProperties</th> <th>Click</th> </tr> </thead> <tbody> <tr> <td>61</td> <td>Smith111@yahoo.com</td> <td>(0276) 7112384</td> <td>Smith</td> <td>1</td> <td>5</td> <td></td> </tr> <tr> <td>54</td> <td>Wa.Micha@bzi.com</td> <td>(0276) 7672384</td> <td>Ward</td> <td>1</td> <td>6</td> <td></td> </tr> <tr> <td>53</td> <td>C.Bruc@mlt.org</td> <td>(0276) 2339429</td> <td>Carroll</td> <td>5</td> <td>9</td> <td></td> </tr> </tbody> </table>	OwnerID	OwnerEmail	OwnerTelephone	OwnerSurname	BranchID	NumProperties	Click	61	Smith111@yahoo.com	(0276) 7112384	Smith	1	5		54	Wa.Micha@bzi.com	(0276) 7672384	Ward	1	6		53	C.Bruc@mlt.org	(0276) 2339429	Carroll	5	9	
OwnerID	OwnerEmail	OwnerTelephone	OwnerSurname	BranchID	NumProperties	Click																										
61	Smith111@yahoo.com	(0276) 7112384	Smith	1	5																											
54	Wa.Micha@bzi.com	(0276) 7672384	Ward	1	6																											
53	C.Bruc@mlt.org	(0276) 2339429	Carroll	5	9																											

Test Num	Type of test	Test data	Expected results	Add screenprint(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)
6	N	Branch selection: 18 Calypso Hill	Town to display as Uxbury Manager to display as Brotherick (current manager) Management fee to display as £208.00	 <p>The screenshots show a web form titled "Management Fee Increase". The form includes a dropdown for "Select the branch" and several input fields for "Town", "Manager", "Current management fee", "Potential increase %", "New fee", and "Yearly income". The top screenshot shows the form with empty fields. The bottom screenshot shows the form with test data entered: "18 Calypso Hill" for the branch, "Uxbury" for the town, "Brotherick" for the manager, and "£208.00" for the current management fee.</p>

Test Num	Type of test	Test data	Expected results	Add screenprint(s) of the results of this test (and any retests) Ensure you show the test data used in the screenprint(s)
7	N	Branch selection: 18 Calypso Hill Town: Uxbury Manager: Brotherick Management Fee: £208.00 Potential increase %: 10	New management fee to display as £228.00 (208 +10%) Yearly Income to display as £2745.60 (228*12)	 <p>The screenshots show a web form titled 'Management Fee Increase'. The form includes a dropdown for 'Select the branch' (set to '18 Calypso Hill'), text boxes for 'Town' (Uxbury), 'Manager' (Brotherick), 'Current management fee' (£208.00), 'Potential increase %' (10), 'New fee' (£228.80), and 'Yearly income' (£2,745.60). The form also has a 'Update Fee' button and a close button.</p>

* Candidates may use R in place of X where indicated – see Lead Examiner report Jan 2020

Activity 8 – Interface evaluation

No evaluation included. See the examples discussed in Script A and Script B.

Also see discussions of the examples in the Lead Examiner report and scripts for the live January 2020 examination.