

## Unit 2 – Creating Systems to Manage Information January 2019 – new format

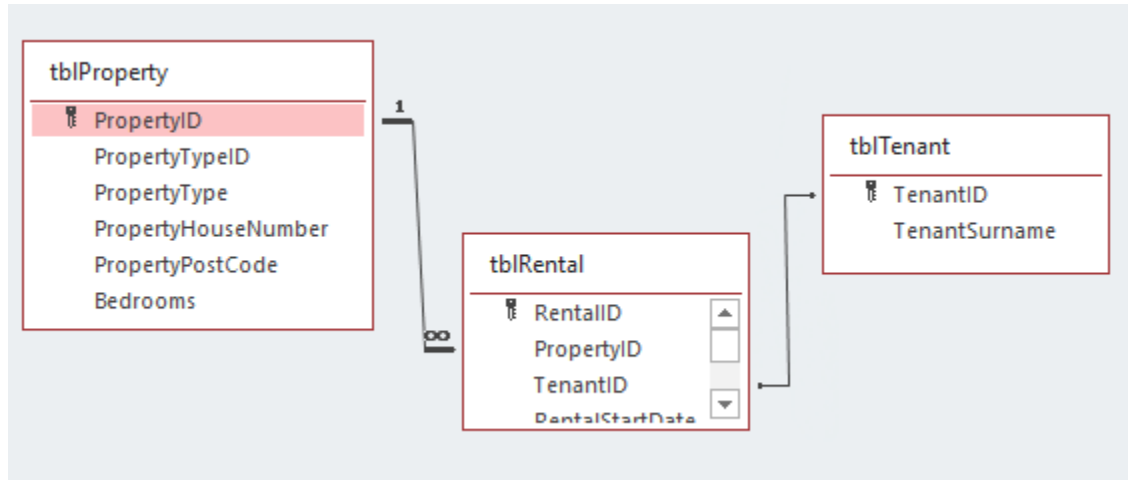
### Script B

Activity	Band	Mark	Max Mark
<b>Part A</b>			
1 – Database relationship screenprint	2	3	8
2 – Table structures	3	5	8
3 – Queries and report	4	11	12
4 – Structure testing	1	1	6
5 – Structure evaluation	1	1	6
<b>Part A Total</b>		<b>21</b>	<b>40</b>
<b>Part B</b>			
6 – Interface and functionality	3	10	14
7 – Interface and functionality testing	3	5	6
8 – Interface and functionality evaluation	0	0	6
<b>Part B Total</b>		<b>15</b>	<b>26</b>
<b>Overall Total</b>		<b>36</b>	<b>66</b>

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## Activity 1 – Database Relationship Screenprint, Band 2, Marks 3



Trait	Band	Comments
1	1	<ul style="list-style-type: none"> <li>The data extract has not been correctly normalised. PropertyType is redundant data in tblProperty. It belongs in its own table with the primary key PropertyTypeID.</li> <li>It is also impossible to see all of the fields in tblRental as the table has been truncated. There is just enough to see RentalStartDate but RentalEndDate and MonthlyRent cannot be seen. This is classed as redundant data as it cannot be seen.</li> <li>There is significant data redundancy.</li> </ul>
2	2	<ul style="list-style-type: none"> <li>Two relationship lines are correct. The fields they link to and relationship type is ignored at this point.</li> <li>One relationship type is correct. There should be a one to many present between tblProperty and tblRental via PropertyID and there is.</li> <li>There is enough to award band 2 for this trait. Band 3 would require the correct number of tables.</li> </ul>
Band	2	<b>There is enough evidence to award the bottom of band 2.</b>
Mark	3	

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

Field Name	Data Type
PropertyID	AutoNumber
PropertyTypeID	Number
PropertyType	Short Text
PropertyHouseNumber	Short Text
PropertyPostCode	Short Text
Bedrooms	Number

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

### Trait 1

- tblProperty and tblRental both use a recognised naming convention and they are consistent with each other. However, the name of the tenant table cannot be seen. Keys are consistent i.e. uppercase ID and the rest of the fields are consistent i.e. uppercase for what could be classed as the first letter of each word.

Field Name	Data
TenantID	Short Text
TenantSurname	Short Text

### Table Lookup

General		Lookup	
Display Control	Combo Box		
Row Source Type	Table/Query		
Row Source	SELECT tblPropertyType.PropertyTypeID FROM tblPropertyType;		
Bound Column	1		

### Range Check

Validation Rule	Is Not Null And Between 1 And 5
Validation Text	Please enter the number of bedrooms from 1 to 5

### Format Check

Field Name	Data Type
MonthlyRent	Currency

### Length Check

Field Name	Data Type
PropertyID	AutoNumber
PropertyTypeID	Number

General		Lookup	
Field Size	Long Integer		
New Values	Increment		

### Presence Check

Validation Rule	Is Not Null
Validation Text	You must enter a tenant ID

### Trait 4

There are weaknesses present for all validation shown.

**Presence check** – does not show the field it belongs to and it appears to have been applied to a primary key, which is not appropriate as they will include a presence check by default.

**Length check** – Evidence expected is showing the length being set for a text field. This evidence is irrelevant.

**Format check** – Postcode was the most suitable field to apply a format check to. Examiners are looking for the skill of using an input mask of validation rule to force the user to input data in a specified pattern i.e. on a text field. Therefore this format check is irrelevant.

**Table lookup** - the evidence must include the field and table the lookup is being **applied** to. The screenprint does not include that nor does it show 'Limit to List' being set to 'Yes'.

Assessment focus	Band 0	Band 1	Band 2	Band 3	Band 4	Max. mark
<b>Activity 2: Table structure and validation</b>	<b>0</b>	<b>1-2</b>	<b>3-4</b>	<b>5-6</b>	<b>7-8</b>	<b>8</b>
	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 including matching primary and foreign key 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	3	<ul style="list-style-type: none"> <li>A recognised naming convention has been used for table names (tbl) other than tblTenant, which is not shown. Keys are consistent, the rest of the fields are consistent</li> </ul>
2	3	<ul style="list-style-type: none"> <li>Most primary keys are present (1 missing). All foreign keys are present. This is based on the structure shown in Activity 1 so that the candidate is not double penalised for incorrect normalisation etc. Band 3 can also be classed as most primary and all foreign</li> </ul>
3	4	<ul style="list-style-type: none"> <li>Text, number, currency, date and time data types have been used effectively. All data types are correct.</li> </ul>
4	1	<ul style="list-style-type: none"> <li>The presence check is weak in that it has been applied to a primary key and the field cannot be seen. However, the field name is present in the validation text.</li> <li>The length check and format check are irrelevant.</li> <li>The table lookup cannot be classed as evidence as the table and field it has been applied to cannot be seen.</li> <li>1 type of validation has been successfully proven and credit is given for that even with its weaknesses.</li> </ul>
<b>Band</b>	<b>3</b>	<b>There is enough evidence to award bottom of band 3. Validation evidence is preventing this achieving anything higher.</b>
<b>Mark</b>	<b>5</b>	

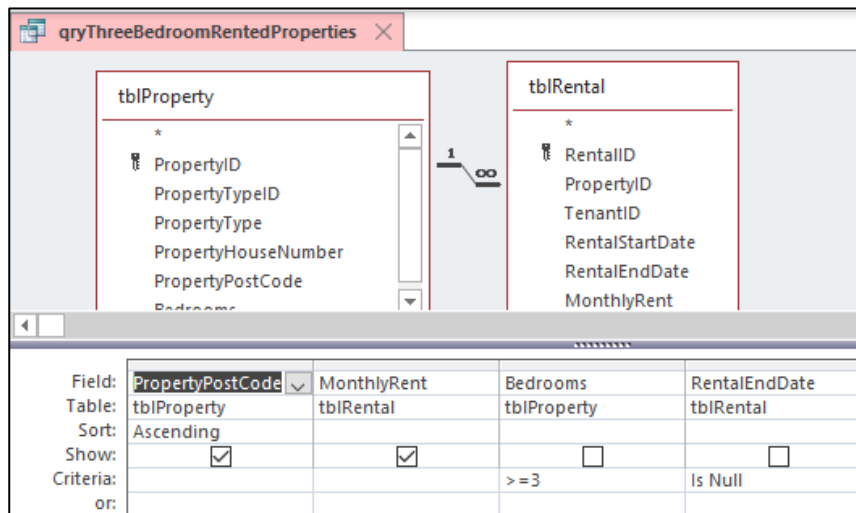
## Activity 3 – Queries and Report, Band 4, Marks 11

Please see the marking guidance for details on awarding the points in each trait and the points/band overall.

- (a) Create a query to display an alphabetically sorted list of the current rentals for properties that have at least 3 bedrooms. It must show the sorted property postcode and monthly rent only

### Trait 1

- PropertyPostcode, Bedrooms, MonthlyRent and RentalEndDate are present (4 points)



### Trait 2

- The Postcode has been sorted (1 point)
- The criteria used for Bedrooms would only find the properties with at least 3 bedrooms. (1 point)
- The criteria used for RentalEndDate finds current rentals only. (1 point)

### Trait 3

- The ordering of the columns is good. It makes the date easy to read and understand (1 point)
- There is no truncation in the field names or data (1 point)
- Only the fields that should be displayed have been displayed (1 point)

PropertyPostCode	MonthlyRent
BV2 8ZV	£294.67
BV3 8CV	£843.00
*	

(b) Create a query for rentals that have ended, to calculate:

- the duration of rentals in years for rentals that have ended
- the income generated.

Display:

- the property postcode
- the length of the rental in full years
- the income generated.

The screenshot shows the Microsoft Access interface for a query named 'qryIncome'. It displays the table design view for 'tblProperty' and 'tblRental' with a one-to-many relationship. Below the design view is a field list table:

Field:	PropertyPostCode	RentalStartDate	RentalEndDate
Table:	tblProperty	tblRental	tblRental
Sort:			
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:			Is Not Null

Below the field list, the calculated fields are defined:

- YearsRental: `Int(DateDiff("d",[RentalStartDate],[RentalEndDate])/365.25)`
- IncomeGenerated: `[MonthlyRent]*[YearsRental]*12`

The preview view shows the following data:

PropertyPostCode	YearsRental	IncomeGenerated
BV1 3UN	2	£11,959.92
BV2 1GC	8	£61,567.68
BV0 6DJ	6	£35,256.24
BV2 2CK	1	£8,788.08
*		

**Trait 1**

- PropertyPostcode and RentalEndDate are present (2 points)
- NumberOfYears includes at least one field that is relevant in determining the rental duration (1 point)
- Income generated includes at least one field that is relevant in the calculation (1 point)

**Trait 2**

- The criterion used for RentalEndDate is correct. It would find rentals that have ended (1 point)
- There is a calculation that would calculate the number of years between the RentalStartDate and RentalEndDate, however, it would give the length in full year i.e. not round part years up to a full year (1 point)
- There is a calculation for IncomeGenerated which would determine the yearly rent for each of the years. (1 point)

**Trait 3**

- The ordering of the columns does aid readability (1 point)
- There is no truncation (1 point)
- Only the fields required have been displayed (1 point)
- The field names for the generated fields are meaningful (1 point)
- IncomeGenerated has been formatted to currency with two decimal places. (need two instances for a point – see later)

(a) Report – Create a report that shows rentals for each property.

For each property calculate:

- The total number of rentals
- The highest monthly rent
- The lowest monthly rent.

Also calculate:

- the total number of rentals overall
- the highest monthly rent overall
- the lowest monthly rent overall.

Display:

- a suitable report title
- the property house numbers
- the property postcodes
- the property types
- the number of rentals for each property
- the highest monthly rent charged for each property
- the lowest monthly rent charged for each property
- the total number of rentals
- the highest monthly rent overall
- the lowest monthly rent overall.

The report must fit on one page.

Please note screenprint of report view included for illustration purposes only. There MUST be a pdf of the report.

The screenshot displays the Microsoft Access interface with two windows: 'rptRentals' and 'tblRental'. The 'rptRentals' window is in design view, showing the following structure:

- Report Header:** rptRentals
- Page Header:** PropertyHouseNumber, PropertyPostCode, PropertyType, NumberRentals, HighestRent, LowestRent
- Detail:** PropertyHouseNumber, PropertyPostCode, PropertyType, NumberRentals, HighestRent, LowestRent
- Page Footer:**
- Report Footer:** Overall number rentals =Count([numberrentals]), Highest rent =Max([highestrent]), Lowest rent =Min([lowestrent])

The preview view shows the following data table:

PropertyHouseNumber	PropertyPostCode	PropertyType	NumberRentals	HighestRent	LowestRent
1	BV1 3UN	Semi detached bungalow	1	£498.33	£498.33
14	BV0 6DJ	Semi detached house	1	£489.67	£489.67
2	BV2 8ZV	Terraced house	1	£294.67	£294.67
3	BV3 8CV	Detached house	1	£843.00	£843.00
5a	BV2 2CK	Detached bungalow	2	£850.00	£732.34
80	BV2 1GC	Detached house	1	£641.33	£641.33

Summary statistics from the report footer:

Overall number rentals	6
Highest rent	850
Lowest rent	294.67



Field:	PropertyHouseNumber	PropertyPostCode	PropertyType	NumberRentals: RentalID	HighestRent: MonthlyRent	LowestRent: MonthlyRent
Table:	tblProperty	tblProperty	tblProperty	tblRental	tblRental	tblRental
Total:	Group By	Group By	Group By	Count	Max	Min
Sort:						
Show:	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Criteria:						

**Trait 1**

- The report includes these relevant fields:
  - the property house numbers (1 point)
  - the property postcodes (1 point)
  - the property types (1 point)
  - the number of rentals for each property (1 point)
  - the highest monthly rent charged for each property (1 point)
  - the lowest monthly rent charged for each property (1 point)
  - the total number of rentals (1 point)
  - the highest monthly rent overall (1 point)
  - the lowest monthly rent overall (1 point)

**Trait 2**

- For each property:
  - the number of rentals has been calculated (1 point)
  - The highest monthly rent has been calculated (1 point)
  - The lowest monthly rent has been calculated (1 point)
- Overall:
  - the number of rentals has been calculated (1 point)
  - The highest monthly rent has been calculated (1 point)
  - The lowest monthly rent has been calculated (1 point)

**Trait 3**

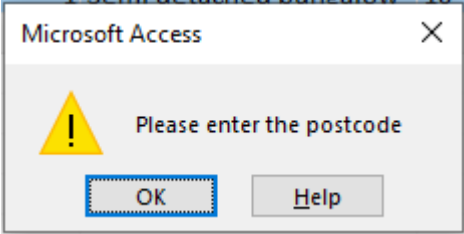
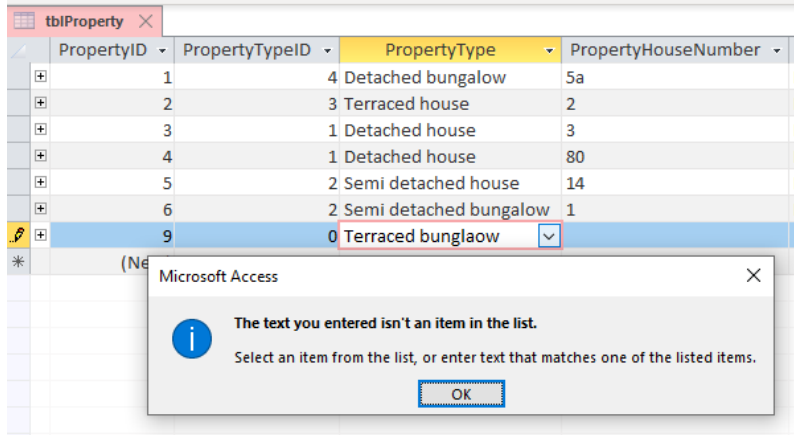
- The report does fit on one page but the layout could be better e.g. field widths and alignment in the report footer (0 points)
- The title is not suitable (0 point)
- The labels are inappropriate e.g. lack of spaces (0 points)
- There is no truncation of data (1 point)
- Currency has been used for at least two monetary amounts across queries/report (1 point)

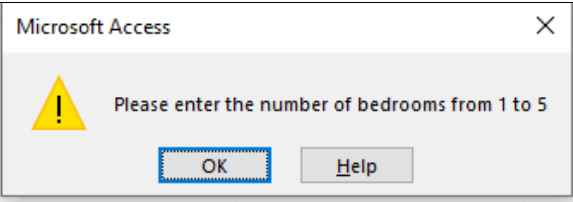
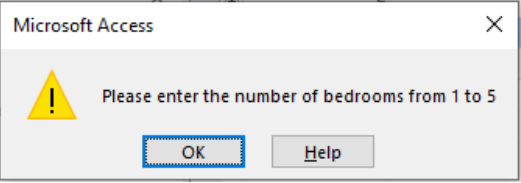
Activity 3: Queries and Report	0	1-3	4-6	7-9	10-12	12
	No rewardable material	<p>Queries and report include limited relevant fields.</p> <p>Queries and report include details of some criteria and calculations required, which may include inaccuracies.</p> <p>Presentation of data in queries and report will not aid readability and understanding of data.</p>	<p>Queries and report includes some relevant fields.</p> <p>Queries and report include accurate details of some criteria and calculations required.</p> <p>Presentation of data in queries and report will, in places, aid readability of and understanding of data.</p>	<p>Queries and report includes mostly relevant fields.</p> <p>Queries and report includes accurate details of most criteria and calculations required.</p> <p>Presentation of data in queries and report will mostly aid readability and understanding of data.</p>	<p>Queries and report includes all relevant fields only.</p> <p>Queries and report include accurate details of all criteria and calculations required.</p> <p>Presentation of data in queries and report will aid readability and understanding of data.</p>	

Trait	Band	Comments
1	4 top	An excellent attempt. The queries and report included the minimum tables and fields required in order to obtain the results.
2	4 top	<ul style="list-style-type: none"> <li>Query 1: Postcode was sorted correctly. The criterion for RentalEndDate was correct. The criterion for Bedrooms was correct.</li> <li>Query 2: The number of years would generate correctly i.e. not round partial years up. The income would be generated. The criterion for RentalEndDate is correct.</li> <li>Report: For each property the number of rentals has been calculated, the highest rent and the lowest rent. The calculations can be seen in the query. The report footer includes the calculations for the overall number of rentals and highest and lowest rent.</li> </ul>
3	3 top	<ul style="list-style-type: none"> <li>Query 1: The ordering of the columns is sensible and only the fields that were required have been displayed. There is no truncation of field names or data. Presentation would aid readability and understanding.</li> <li>Query 2: The ordering of the columns is sensible and only the fields that were required have been displayed. There is no truncation of data. Monetary amounts have been formatted to currency with 2 decimal places. Presentation would aid readability and understanding.</li> <li>Report: Includes only the relevant fields and there is no truncation. However, the title is meaningless, the labels could be better, the results of the calculations could have been formatted more sensibly. The report is still readable and understandable.</li> </ul>
Band	4	<b>Overall the evidence very nearly meets top of band 4. The weakness in the report prevents full marks being awarded.</b>
Mark	11	

## Activity 4 – Structure Testing, Band 1, Marks 1

Note: final two columns have been merged in order to show the results more clearly. The actual testing template is set at A3 paper size using landscape orientation.

Test No	Type (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	N	blank	Error message	
<b>Type of test</b>			The type of test is incorrect.	
<b>Test data</b>			The test data is of no use. Learners need to specify the name of each field in the table and the precise data that will be used for each field. Primary key fields can be specified as AutoNumber or New for where keys are AutoNumber data types.	
<b>Expected results</b>			Too vague, what error message?	
<b>Actual results</b>			The test results do not prove the test was successful. The screenprint needs to include the actual data used in all of the fields.	
2		Terraced bungalow	Error message	
<b>Type of test</b>			Missing	
<b>Test data</b>			The test data is too vague	

<b>Expected results</b>			The expected results are too vague				
<b>Actual results</b>			The actual results are fine other than the data shown does not match the test data given				
3		0	Error message below range				
<b>Type of test</b>			Missing				
<b>Test data</b>			Too vague				
<b>Expected results</b>			Relevant but too vague				
<b>Actual results</b>			The test results do not prove the test was successful – see earlier comments				
4		6	Error message above range				
<b>Type of test</b>			Missing				
<b>Test data</b>			Too vague				
<b>Expected results</b>			Relevant but too vague				
<b>Actual results</b>			The test results do not prove the test was successful – see earlier comments				
5		TE0	My validation will stop them picking a tenant that doesn't exist	9	1 TE0	30/08/2017	£1.00
<b>Type of test</b>			Missing				
<b>Test data</b>			Too vague				
<b>Expected results</b>			This is too much like a description rather than what can be expected to be seen on screen				
<b>Actual results</b>			The test did not work but there are no comments discussing this nor attempt to rectify it				
6		0	My validation will stop them picking a property that doesn't exist	9	1 TE0	30/08/2017	£1.00
<b>Type of test</b>			Missing				
<b>Test data</b>			Too vague				
<b>Expected results</b>			This is too much like a description rather than what can be expected to be seen on screen				
<b>Actual results</b>			The test did not work but there are no comments discussing this nor attempt to rectify it nor does the data match the test data given.				

Assessment focus	Band 0	Band 1	Band 2	Band 3	Max Marks
<b>Activity 4: Structure Testing</b>	<b>0</b>	<b>1-2</b>	<b>3-4</b>	<b>5-6</b>	<b>6</b>
	No rewardable material	<p>Testing is too narrow to confirm a working interface, 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. Test result comments are present when errors have been found. These 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 interface can cope with some erroneous and extreme data relevant to the scenario. Test result comments are present when errors have been found. These 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. Test result comments are present when errors have been found. These comments show a clear understanding of any errors and how they were fixed.</p>	

Trait	Band	Comments
1	1	The testing is too narrow to confirm a working solution. Expected results and test data are very weak. Only one of the test results actually proves the database operates.
2		
3		
Band	1	
Mark	1	

## Activity 5 – Structure Evaluation, Band 1, Marks 1

I think that my database structure could have minimised data duplication better. I would do this by implementing more validation rules to my table structure to minimise duplicates.

My database has the different types of properties available such as detached house.

Although my database structure didn't minimise data duplication as well as it could've, I think that the way I categorised and lay out my tables was appropriate to each purpose.

In this task I used a validation rule of 'Is Not Null' to ensure that a value must be entered into the field. I also ensured that when I was indexing my data, I was checking to allow duplicates or to not where appropriate. I also checked the required box where data was compulsory. An example of this would be Tenant ID.

Assessment focus	Band 0	Band 1	Band 2	Band 3	Max. mark
<b>Activity 5: Structure Evaluation</b>	<b>0</b>	<b>1-2</b>	<b>3-4</b>	<b>5-6</b>	<b>6</b>
	No rewardable material	<p>Superficial understanding of relevant technical concepts shown with some inaccuracies.</p> <p>Limited or unsupported justification of the relational database structure selected.</p> <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 the relational database structure selected.</p> <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>Accurate and detailed understanding of relevant technical concepts shown throughout.</p> <p>A valid and fully supported justification of the relational database structure selected.</p> <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>	

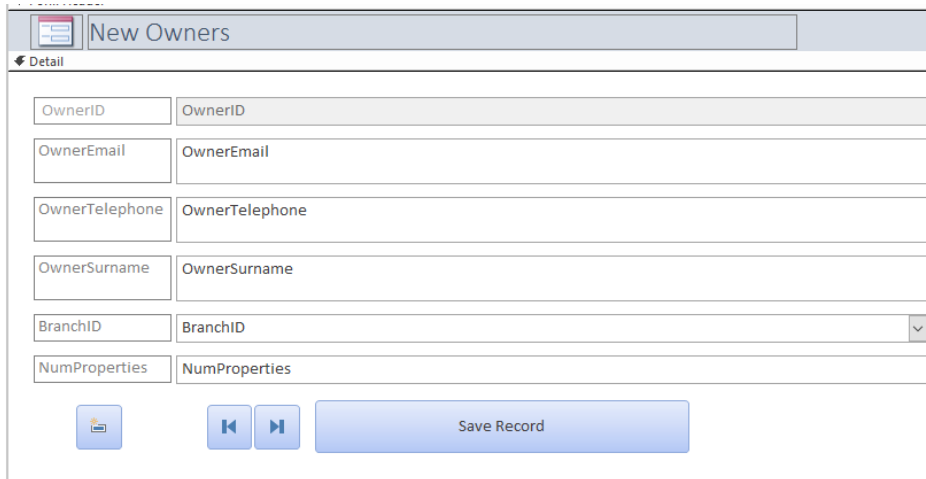
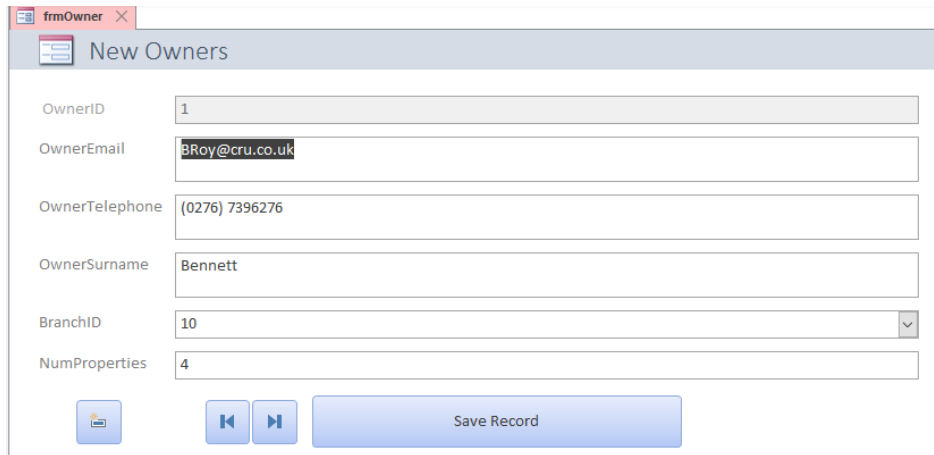
Trait	Band	Comments
1	1	There is very little markworthy other than the use of technical language. Other than the words 'detached house' and 'Tenant ID' this evaluation could be applied to any of the scenarios. It is too vague and shows very little understanding There is just enough to award one mark.
2		
3		
Band	1	
Mark	1	





## Activity 6 – Interface and Functionality, Band 3, Marks 10

### Add Owner Form



#### Trait 1

##### Expectations

- Sensible title
- Instructions on how to use, asterisks where data entry is required
- Field widths appropriate for data they will hold
- Appropriate labels
- Layout good
- OwnerID disabled
- Relevant, consistent, easy to read labels (e.g. spaces)
- Combo box for branch
- Save button

##### Evidence

- The form has a sensible title that is relevant to its purpose
- OwnerID has been disabled to prevent the user from changing it
- There is a combo box present to allow the user to select the branch ID
- A save button is present but further buttons have been included, which were not required
- There are no instructions for use nor asterisks to indicate data entry
- The field widths are not appropriate for the data that they hold
- The labels are not appropriate
- The layout is not good – it is default. Not attempt has been made at a house style
- A save button is present but further buttons have been included, which were not required

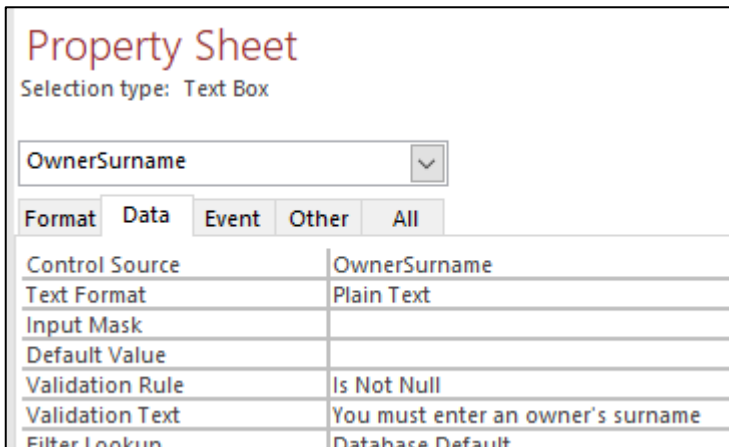
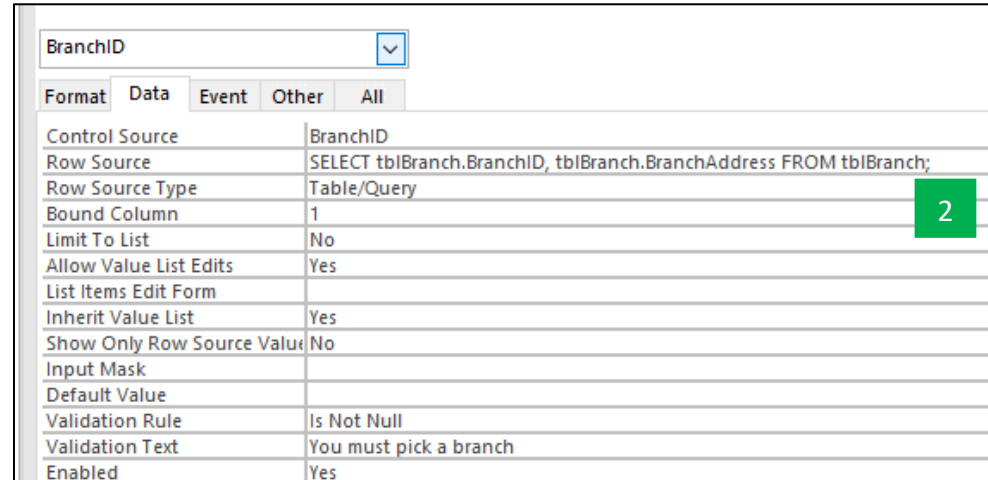
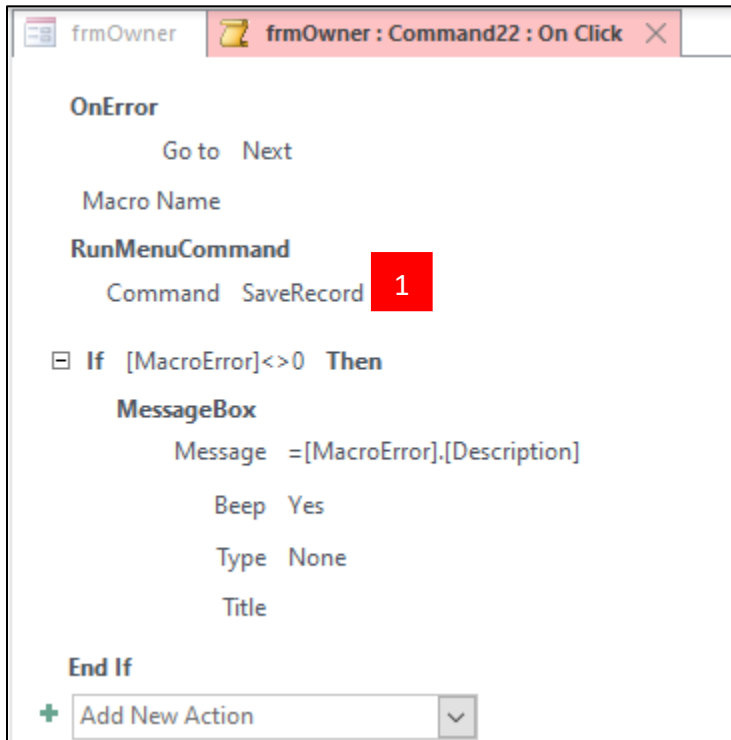
#### Trait 2

##### Expectations

- ID will be automatically generated

##### Evidence

- The data type for OwnerID is AutoNumber. That is enough evidence to be credited in trait 2 for the ID being automatically generated



### Trait 3 (Owner form)

#### Expectations

- Opens at a new record
- Validation to ensure
  - the surname is present
  - BranchID has been selected/is present and valid (2)
  - number of properties is within specified range (1 – 10)
- Saving includes:
  - appending valid data to the owner table (1)
  - displaying a save message
  - clearing the form ready for next record
  - displaying suitable error message(s)

#### Evidence

1 A valid record would save

There is no other appropriate automation/validation evidence other than a valid branchID (2). Presence checks added to the field properties on the form are not appropriate. The error checking built into the macro would not be triggered from these.

The screenshot shows a form window titled 'frmManagement'. It contains the following fields:

- Branch:** A dropdown menu.
- Town:** A disabled text input field.
- ManagerSurname:** A disabled text input field.
- PropertyManagementFee:** A disabled text input field.
- Increase %:** A text input field.
- New management fee:** A text input field.
- new yearly income:** A text input field.

## Trait 1

### Expectations

- Sensible title
- Instructions on how to use
- Relevant, consistent, easy to read labels (e.g. spaces)
- Field widths appropriate for data they will hold
- Layout good
- Combo box to branch address
- These fields present
  - Town
  - Manager surname
  - Property management fee
- Control to input percentage of potential increase (as a whole number)
- All fields disabled other than combo for branch address and percentage of potential increase
- These generated controls should be on the form (ignore content of fields)
  - New management fee
  - Yearly income

### Evidence

- There is a combo box for the branch address
- The fields are present for Town, Manager surname and Property management fee
- There is a control to input percentage of potential increase though it cannot be seen whether the user would have to input a whole number
- Some of the relevant fields have been disabled
- The generated fields are present on the form
- The form does not have a sensible title
- There are no instructions on how to use the form
- The labels are inconsistent (use of uppercase/lowercase) and some are hard to read due to lack of spaces e.g. ManagerSurname
- The field widths are inappropriate for the data they will hold i.e. too wide
- The layout is not good i.e. no attempt at a house style, alignment of fields could be better

frmManagement

Detail

Branch Unbound

Town =DLookup("Town","qryManagementForm") **2**

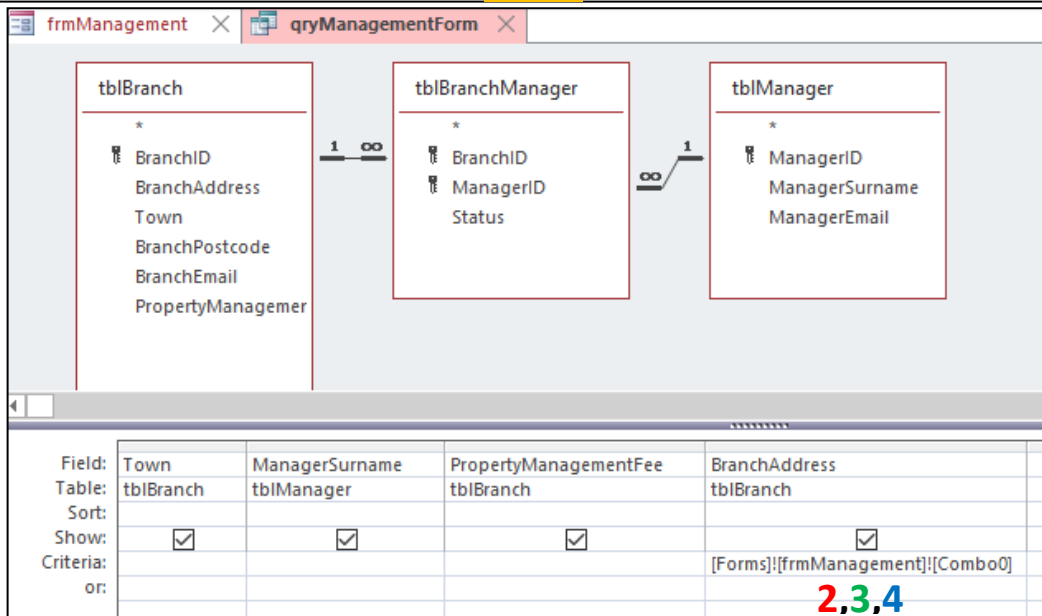
ManagerSurname =DLookup("ManagerSurname","qryManagementForm") **3**

PropertyManagementFee =DLookup("PropertyManagementFee","qryManagementForm") **4**

Increase % Unbound

New management fee =[propertymanagementfee]/100\*[increase]+[propertymanagementfee] **5**

new yearly income =[newfee]\*12 **6**



Combo0

Format Data Event Other All

Control Source	
Row Source	SELECT tblBranch.BranchAddress FROM tblBranch;
Row Source Type	Table/Query
Bound Column	1 <b>1</b>
Limit To List	No
Allow Value List Edits	Yes
List Items Edit Form	

frmManagement frmManagement : Combo0 : After Update

Requery

Control Name

+ Add New Action **7**

## Trait 2

### Expectations

- Town (2) , Manager surname (should be current manager) (3) , Property management fee (4) links to branch address selected
- New management fee calculated (including the increase) (5)
- Yearly income calculated from the new management fee (6)

### Evidence

- There is a screenprint (1) showing the source of the combo box
- There is also a screenprint, in design view, of a query showing a filter linked to the branch address selected on the form (2,3,4)
- The design view screenprint of the form shows a DLookup being used to pick up the Town (2) from this query, a DLookup being used to pick up the ManagerSurname (3) from this query, however this would pick up the first manager surname it encounters rather than the current manager and a DLookup to pick up the PropertyManagement Fee (4)
- The new management fee has been calculated, including the increase (5)
- The new yearly income has been calculated (6)

## Trait 3

### Expectations

- Town, ManagerSurname, PropertyManagementFee will update after the BranchAddress has been selected (7)
- The new property management fee and new yearly income will be generated automatically after the increase amount has been input

### Evidence

- The Requery (7) command has been used on the combo After Update event. This would ensure the Town etc would be updated. The generated field contents would also be updated after the input of the % increase provided a branch had been selected – it did not require a macro/code

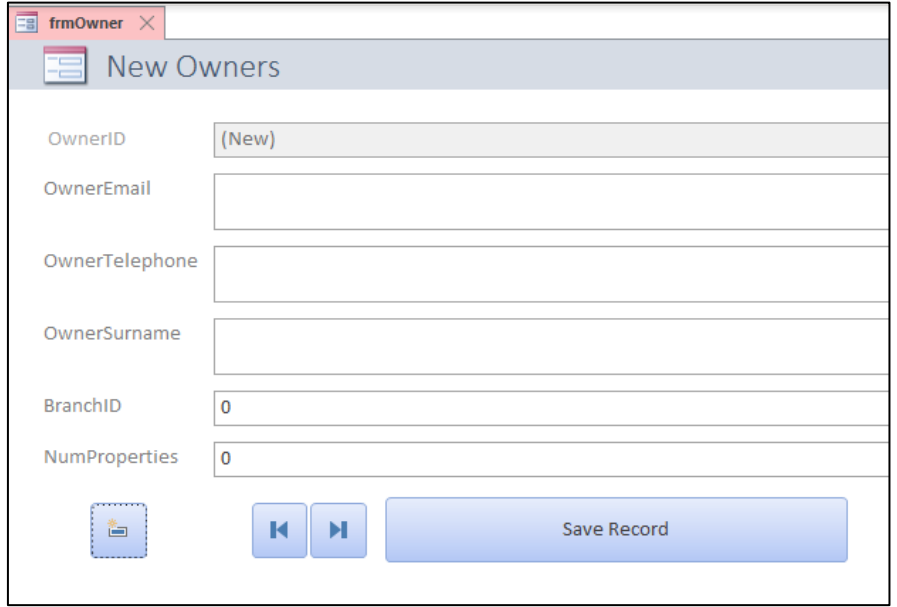
Assessment focus	Band 0	Band 1	Band 2	Band 3	Band 4	Max. mark
<b>Activity 6: Interface and Functionality</b>	<b>0</b>	<b>1-4</b>	<b>5-7</b>	<b>8-10</b>	<b>11-14</b>	14
	No rewardable material	<p>Interface is unclear or provides limited information and there are inconsistencies and inaccuracies in formatting, so a user would experience difficulty in using the database and making maintenance by a third party difficult.</p> <p>Interface may not have details of criteria/calculations required, or these may include inaccuracies.</p> <p>Interface uses minimal validation, checking procedures and automation resulting in a system with limited capacity to reduce errors or handle unexpected events.</p> <p>Interface may not be fully functional and/or may have major errors that prevent the interface from meeting the given criteria.</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 includes accurate details of some criteria/calculations required.</p> <p>Interface uses some accurate validation, checking procedures and automation, resulting in a system that minimises the most common errors and handles some unexpected events.</p> <p>Interface is functional and meets some of the given criteria with minimal errors.</p>	<p>Interface is clear with minimal inconsistencies and inaccuracies in formatting allowing a user to use the database easily and allowing maintenance by a third party with minor difficulties.</p> <p>Interface includes accurate details of most criteria/calculations required.</p> <p>Interface uses accurate validation, checking procedures and automation, resulting in a system that minimises the majority of errors and handles most unexpected events.</p> <p>Interface is functional with minimal errors and meets the given criteria.</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 includes accurate details of all criteria/calculations required.</p> <p>Interface uses accurate validation, checking procedures and automation throughout, resulting in a robust system that minimises errors and handles unexpected events.</p> <p>Interface is fully functional and fully meets the given criteria.</p>	

Trait	Band	Comments
1	2 middle	<p><b>Owner form</b> The owner form is mostly based on the wizard/default; however it does have a sensible title, the OwnerID has been disabled, there is a combo box present to allow the user to select the branch ID and there is a Save button present.</p> <p><b>Update management fee form</b></p> <ul style="list-style-type: none"> <li>The management fee form has a combo box for the branch address, fields for Town, Manager surname and Property management fee, a control to input percentage of potential increase though it cannot be seen whether the user would have to input a whole number, some of the relevant fields have been disabled and the generated fields are present on the form. However, there is no title, no instructions, poor field widths, poor labels etc.</li> </ul> <p>Overall there is enough to place in the middle of band two. The weaknesses with field widths etc have been balanced by the combo boxes, disabled fields, generated fields etc.</p>

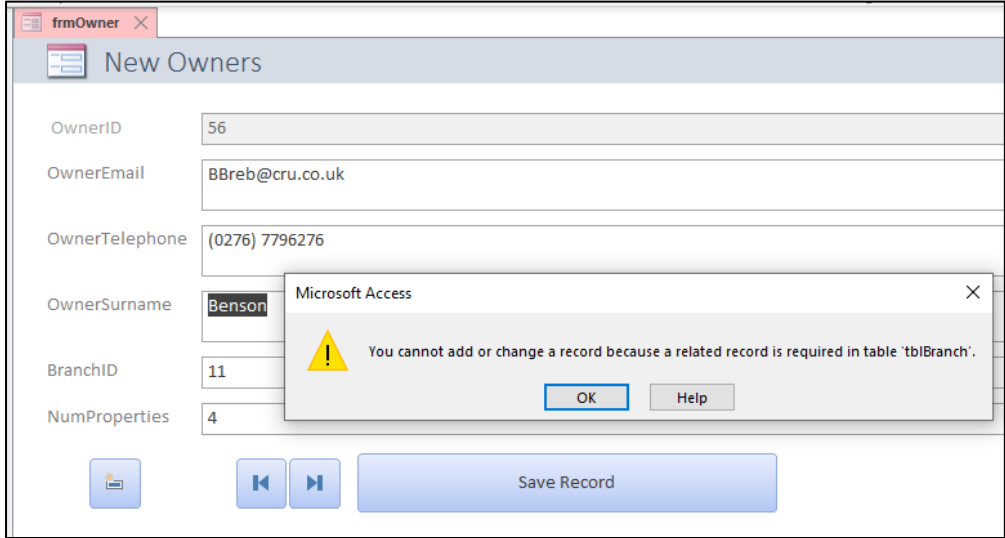
2	4 middle	<p><b>Owner form</b> The OwnerID would be generated</p> <p><b>Update management fee form</b></p> <ul style="list-style-type: none"> <li>• There are links to the Town, ManagerSurname and PropertyManagementFee. All link to the correct branch, the only thing that is not catered for is the 'current' manager.</li> <li>• All of the calculations are correct. The new management fee includes the increase etc.</li> </ul> <p>Overall there is enough to place in band 4 but not at the top as 'current' manager was not taken into account.</p>
3	3 middle	<p><b>Owner form</b></p> <ul style="list-style-type: none"> <li>• The form does not open at a new record and whilst presence checks have been attempted, they are not appropriate. This would also mean no error messages would display. There is no validation present to ensure the number of properties is within the specified range.</li> <li>• There is suitable validation to ensure a BranchID is valid i.e. the source of the BranchID combo box has been shown and is appropriate.</li> <li>• A valid record would save including incrementing the OwnerID, however a save message would not display and the form would not clear ready for the next input.</li> </ul> <p><b>Update management fee form</b></p> <ul style="list-style-type: none"> <li>• After the branch address had been selected the Town, ManagerSurname and PropertyManagementFee would appear, though the ManagerSurname may not be the current manager.</li> <li>• After the potential percentage increase has been input the new management fee (including the increase) and the yearly income generated would correctly display.</li> </ul> <p>Overall there is enough to place in the middle of band 3. Automation of the management fee form is suitable for entry into band 4 – 'current' manager weakens it; however, automation and validation of the owner form is too weak for band 4 entry.</p>
4	3 middle	Holistically, functionality is mid mark band 3.
<b>Band</b>	<b>3</b>	<b>There is enough evidence to award marks at the top of band 3.</b>
<b>Mark</b>	<b>10</b>	

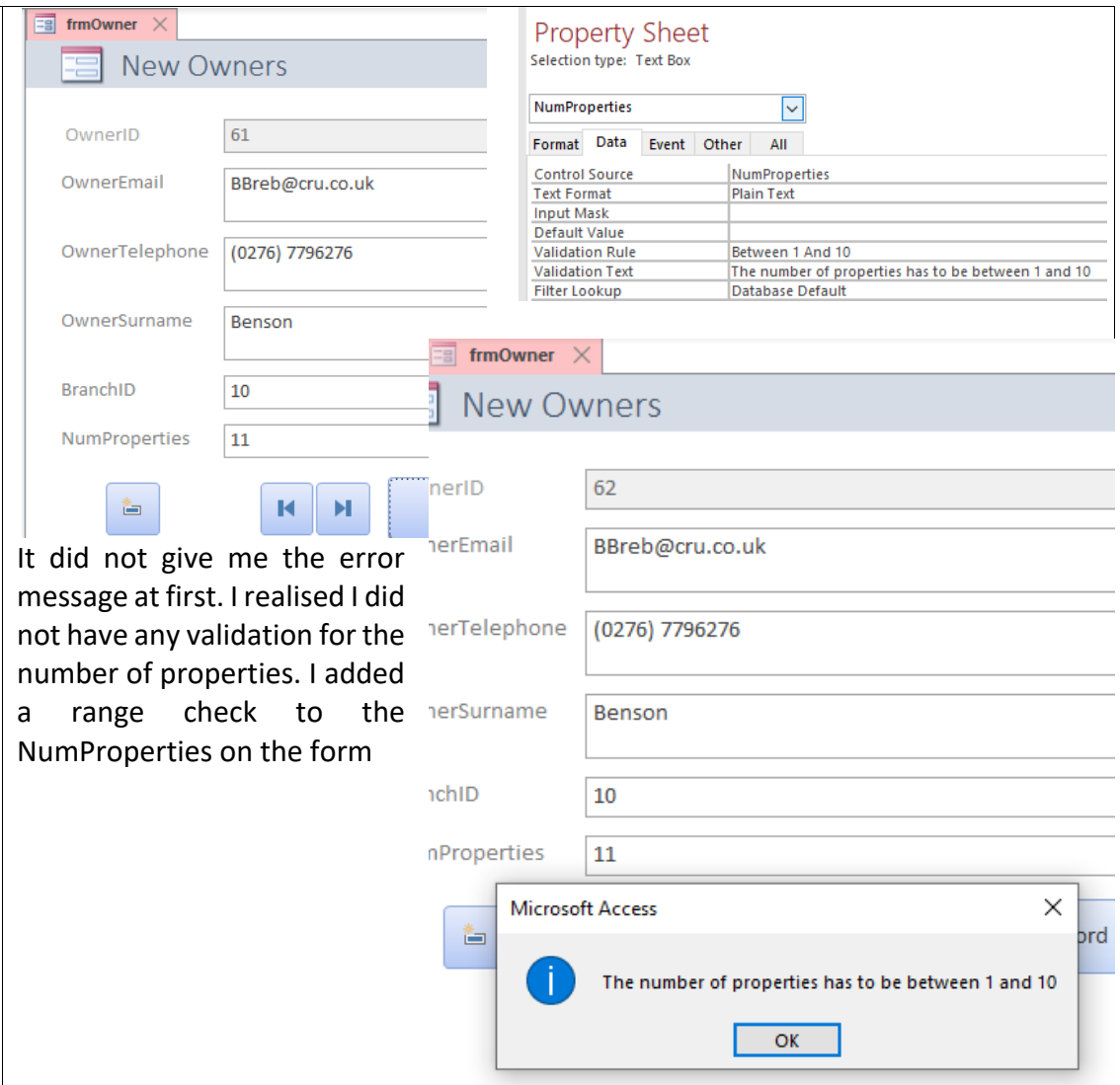
## Activity 7 – Interface and Functionality Testing, Band 3, Marks 5

Note: final two columns have been merged in order to show the results more clearly. The actual testing template is set at A3 paper size using landscape orientation.

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	N	Open form	The form opens and all of the fields are empty, the owner ID is New	
<b>Type of test</b>		Type of test is correct.		
<b>Test data</b>		Test data is appropriate and specific.		
<b>Expected Results</b>		Expected results are appropriate specific.		
<b>Actual Results</b>		Actual results are good. Clearly match what was expected.		

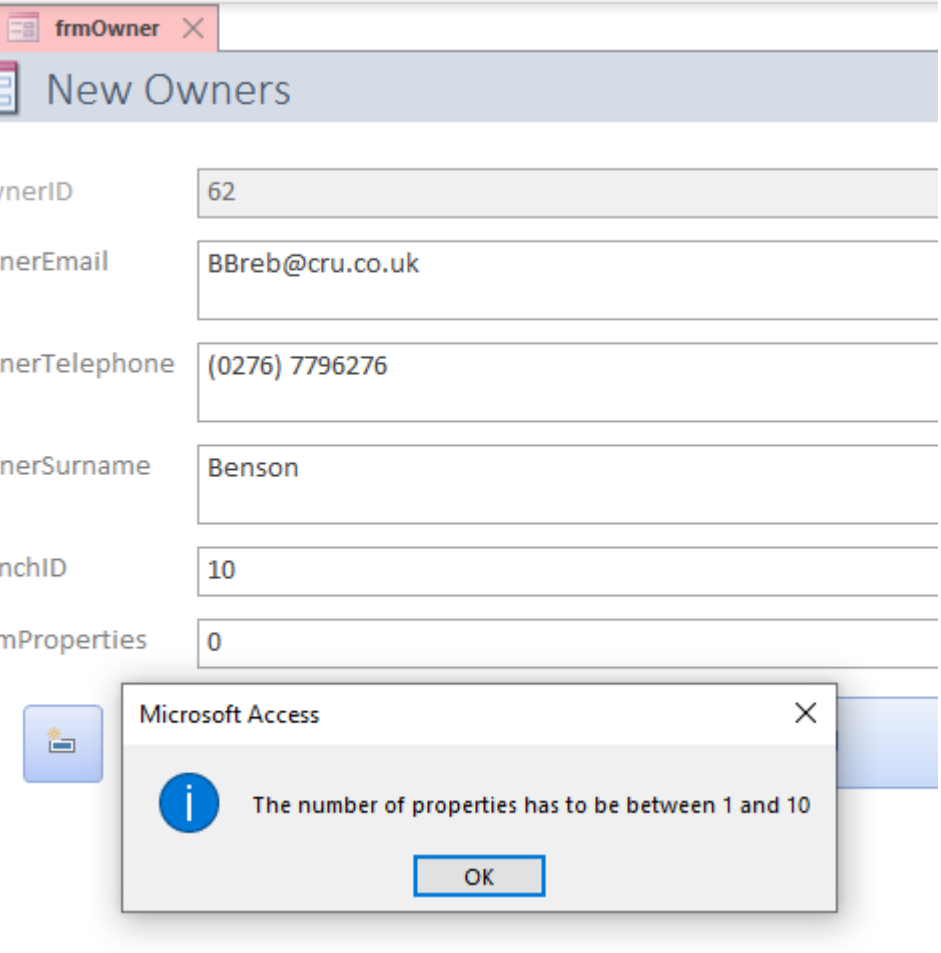


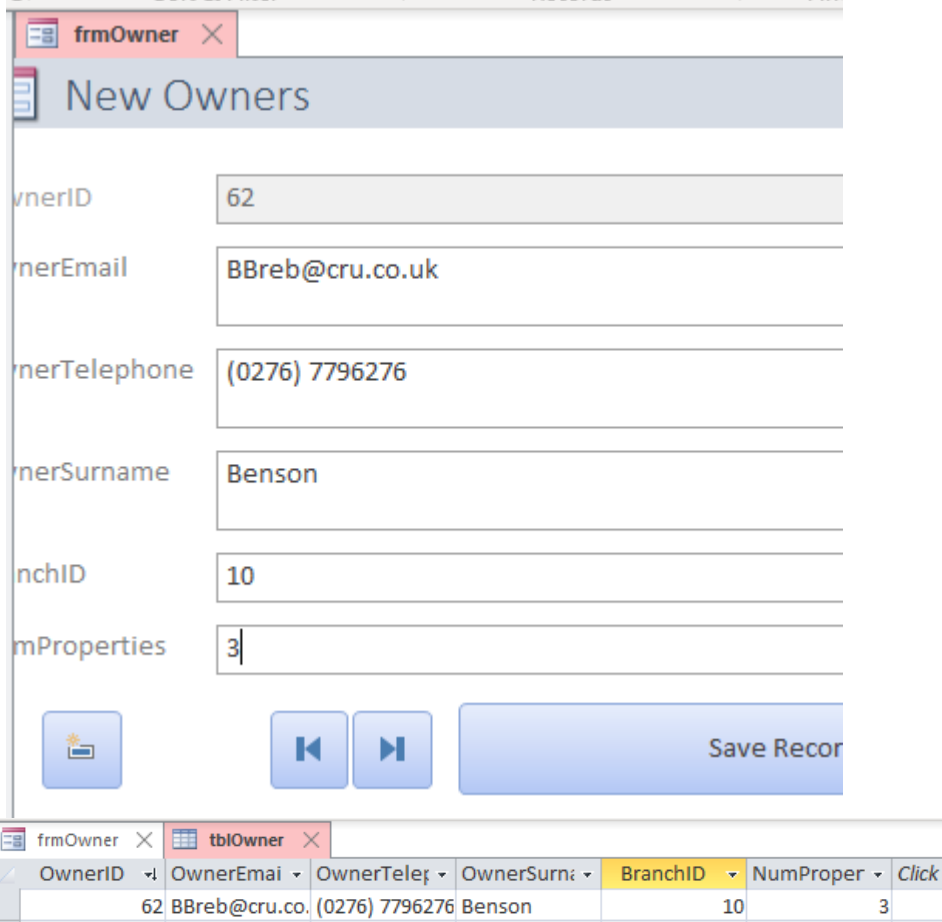
2	X	OwnerID: AutoNumber OwnerEmail: BBreb@cru.co.uk OwnerTelephone: (0276) 7796276 OwnerSurname: Benson BranchID: 11 NumProperties: 4	An error message to appear saying that the branch ID has to be one of the branches in the list	 <p>The error message that I thought would appear did not it was a different one. I don't think it is as useful a message but I think the user would still know they had to change the branch ID and they would see the list so it would be ok</p>
<b>Type of test</b>	Type of test correct (could also have been R see Lead Examiner report for Jan 2020).			
<b>Test data</b>	Test data is relevant and specific for all fields. Test data shows that test would fail only on the field it should fail on.			
<b>Expected Results</b>	Relevant and specific.			
<b>Actual Results</b>	Can clearly see the test data and the actual results. Good that comments are present to say the message was not quite as expected.			

3	X	<p>OwnerID: AutoNumber  OwnerEmail: <a href="mailto:BBreb@cru.co.uk">BBreb@cru.co.uk</a>  OwnerTelephone: (0276) 7796276  OwnerSurname: Benson  BranchID: 10  NumProperties: 11</p>	<p>An error message to appear saying the number of properties has to be between 1 and 10</p>	 <p>The screenshot shows two instances of the 'New Owners' form. The top instance has OwnerID: 61, OwnerEmail: BBreb@cru.co.uk, OwnerTelephone: (0276) 7796276, OwnerSurname: Benson, BranchID: 10, and NumProperties: 11. A 'Property Sheet' is visible on the right, showing the validation rule for NumProperties: 'Between 1 And 10' with the text 'The number of properties has to be between 1 and 10'. The bottom instance has OwnerID: 62, OwnerEmail: BBreb@cru.co.uk, OwnerTelephone: (0276) 7796276, OwnerSurname: Benson, BranchID: 10, and NumProperties: 11. A 'Microsoft Access' error dialog box is overlaid on the bottom instance, displaying the message: 'The number of properties has to be between 1 and 10' with an 'OK' button.</p>
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It did not give me the error message at first. I realised I did not have any validation for the number of properties. I added a range check to the NumProperties on the form

<b>Type of test</b>	Type of test correct (could also have been R see Lead Examiner report for Jan 2020).
<b>Test data</b>	Test data is relevant and specific for all fields. Test data shows that test would fail only on the field it should fail on.
<b>Expected Results</b>	Relevant and specific.
<b>Actual Results</b>	Can clearly see the test data and the actual results. Good that comments are present to say there was a problem and how this problem was rectified. Good to see a retest taking place.

4	X	OwnerID: AutoNumber OwnerEmail: BBreb@cru.co.uk OwnerTelephone: (0276) 7796276 OwnerSurname:Benson BranchID:10 NumProperties:0	An error message to appear saying the number of properties has to be between 1 and 10	
<b>Type of test</b>	Type of test correct (could also have been R see Lead Examiner report for Jan 2020).			
<b>Test data</b>	Test data is relevant and specific for all fields. Test data shows that test would fail only on the field it should fail on.			
<b>Expected Results</b>	Relevant and specific.			
<b>Actual Results</b>	Can clearly see the test data and the actual results.			

5	N	OwnerID: AutoNumber OwnerEmail: BBreb@cru.co.uk OwnerTelephone: (0276) 7796276 OwnerSurname: Benson BranchID: 10 NumProperties: 3	The record to be saved in the owner table with the data matching that on the form	 <p>The screenshot shows a web form titled "New Owners" with the following fields and values:</p> <ul style="list-style-type: none"> <li>OwnerID: 62</li> <li>OwnerEmail: BBreb@cru.co.uk</li> <li>OwnerTelephone: (0276) 7796276</li> <li>OwnerSurname: Benson</li> <li>BranchID: 10</li> <li>NumProperties: 3</li> </ul> <p>Below the form is a data table with the following content:</p> <table border="1"> <thead> <tr> <th>OwnerID</th> <th>OwnerEmail</th> <th>OwnerTelep</th> <th>OwnerSurn</th> <th>BranchID</th> <th>NumProper</th> <th>Click</th> </tr> </thead> <tbody> <tr> <td>62</td> <td>BBreb@cru.co.</td> <td>(0276) 7796276</td> <td>Benson</td> <td>10</td> <td>3</td> <td></td> </tr> </tbody> </table>	OwnerID	OwnerEmail	OwnerTelep	OwnerSurn	BranchID	NumProper	Click	62	BBreb@cru.co.	(0276) 7796276	Benson	10	3	
OwnerID	OwnerEmail	OwnerTelep	OwnerSurn	BranchID	NumProper	Click												
62	BBreb@cru.co.	(0276) 7796276	Benson	10	3													

<b>Type of test</b>	The type of test is correct.
<b>Test data</b>	Relevant and specific for each field.
<b>Expected Results</b>	Relevant and specific.
<b>Actual Results</b>	Relevant but would have been nice to see the weaknesses picked up on – no save message etc.

6  
and  
7

N

Branch: 71  
Bayside Point  
Increase %: 10

Town Nether Kirholm  
ManagerSurname: Kinny  
PropertyManagementFee  
New Management Fee:  
£232.10  
( $211/100 * 10 = 21.1 + 211$ )  
New yearly income:  
£2785.20 ( $232.1 * 12$ )

Sort & Filter | Records | Find | Text Formatting

frmManagement

Branch: [dropdown]  
Town: [text]  
ManagerSurname: [text]  
PropertyManagementFee: [text]  
Increase %: [text]  
New management fee: [text]  
new yearly income: [text]

18 Calypso Hill  
132 Mallard Pass  
62 Algoma Road  
71 Bayside Point  
29 Reinke Road  
27 Superior Center  
101 Sloan Point  
104 West Way  
53 Gateway Park  
84 Schlimgen Court

frmManagement

Branch: 71 Bayside Point  
Town: Nether Kirholm  
ManagerSurname: Kinny  
PropertyManagementFee: £211.00  
Increase %: [text]

frmManagement

Branch: 71 Bayside Point  
Town: Nether Kirholm  
ManagerSurname: Kinny  
PropertyManagementFee: [text]  
Increase %: 10  
New management fee: 232.1  
new yearly income: 2785.2

I don't think the format of the money is very good, so I changed it

New management fee: £232.10  
new yearly income: £2,785.20

Type of test	Type of test is correct.
Test data	Test data is relevant and specific.
Expected Results	Clear that learner knows which Town etc belongs to branch. Good to see results being calculated.
Actual Results	Good – nice to see learner pick up on weaknesses in formatting and amending them.

Assessment focus	Band 0	Band 1	Band 2	Band 3	Max Marks
<b>Activity 7: Interface Testing</b>	<b>0</b>	<b>1-2</b>	<b>3-4</b>	<b>5-6</b>	<b>6</b>
	No rewardable material	<p>Testing is too narrow to confirm a working interface, 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. Test result comments are present when errors have been found. These comments show a limited understanding of any errors that were found.</p>	<p>Testing is adequate to confirm a working interface, 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 interface can cope with some erroneous and extreme data relevant to the scenario. Test result comments are present when errors have been found. These 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. Test result comments are present when errors have been found. These comments show a clear understanding of any errors and how they were fixed.</p>	

Trait	Band	Comments
<b>1</b>	3	Testing is thorough, including a range of normal, erroneous and extreme data. Expected results are specific and accurate based on identified test data. Test results could be a little bit better when it comes to proving it operates under all circumstances relevant to scenario etc. i.e. save message.
<b>2</b>		
<b>3</b>		
Band	3	<b>Overall, there is enough evidence to place the learner at the bottom of band 3.</b>
Mark	5	

## Activity 8 – Interface and Functionality Evaluation, Band 0, Marks 0

One thing I think I did well on is that I created the two form, however, I am not sure that they are 100% right being completely honest. I do think they are quite good especially the second one with the updates and calculations.

If given the opportunity next time I would make sure that a user must enter the things they are supposed to so that the owner record would not save without them

I think I did well with the testing, I think all of the test data is good and I think all of the expected results are good and all of the actual results are good. I think that it is good that I also have shown that I can find errors and put them right.

Assessment focus	Band 0	Band 1	Band 2	Band 3	Max. mark
<b>Activity 8: Interface Evaluation</b>	<b>0</b>	<b>1-2</b>	<b>3-4</b>	<b>5-6</b>	<b>6</b>
	No rewardable material	<p>Superficial understanding of relevant technical concepts shown with some inaccuracies.</p> <p>Limited or unsupported justification of the quality, performance and usability of the interface.</p> <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 the quality, performance and usability of the interface.</p> <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>Accurate and detailed understanding of relevant technical concepts shown throughout.</p> <p>A valid and fully supported justification of the quality, performance and usability of the interface.</p> <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
<b>1</b>	<b>0</b>	There is no markworthy content present. If the first and second paragraph had been expanded and developed, then marks could possibly have been awarded
<b>2</b>		
<b>3</b>		
<b>Band</b>	<b>0</b>	
<b>Mark</b>	<b>0</b>	