# Unit 2 Creating Systems to Manage Information

## Level 3 National in Information Technology

## January 2021

## Activity 7
## Marking Guidance and Marked Examples

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# Activity 7 – Testing (20 minutes)

**How examiners approach marking this activity**

## Tests to be carried out

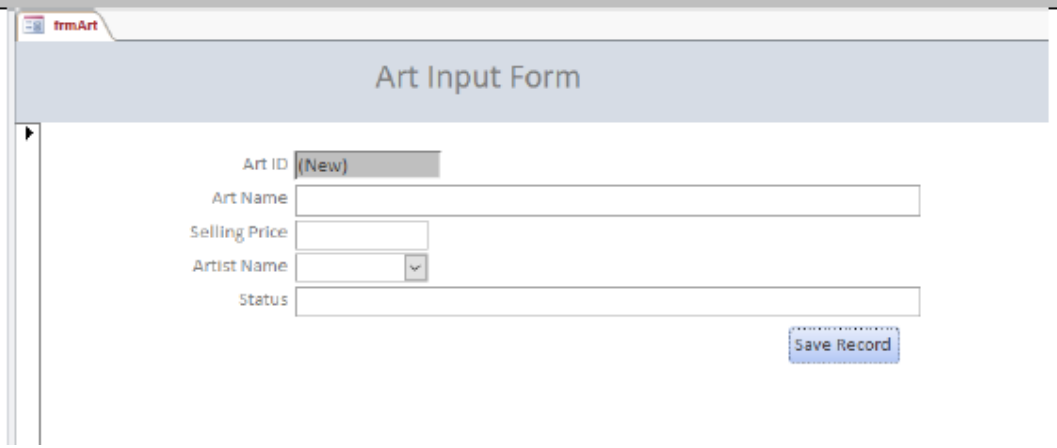
1. The art input form is ready for data entry when the form opens
2. The name of the piece of art must be present
3. The selling price of the piece of art cannot be above £2000
4. The selling price of the piece of art cannot be below £100
5. The piece of art must be assigned to a valid artist
6. A record will save in the art table if all the required data is present and valid
7. These details will appear for the artist selected on the sales form:
    - the artist's email
    - the total number of pieces of art
    - the number of pieces of art sold
    - the highest price for a piece of art
    - the lowest price for a piece of art
    - the total sales

| | |
|---|---|
| **Band 1** | • The test will not be from the tests given or it is from the list but inappropriate<br>• There will be no test data, or it will not relate to the test being carried out<br>• Expected results may be inappropriate<br>• Errors may be present that have not been identified<br>• Do not take type of test into account – we know what they are testing |
| **Band 2** | • The test will be from the tests given, but it may not be entirely appropriate<br>• There will be test data, but it may be incomplete or general e.g., leave the name of the art blank rather than stating exactly what data will be used in each field<br>• Expected results will be sensible but may not be detailed e.g., 'error message' rather than 'error message saying the name of the art has to be present'<br>• Actual results will be present, and appropriate<br>• Errors may/may not have been found<br>• Do not take type of test into account – we know what they are testing |
| **Band 3** | • The test will be from the tests given and it will be appropriate<br>• Test data will be specific for **all** fields<br>• Expected results will be specific<br>• Actual results will show **all** the test data used and any relevant messages<br>• Do not penalise if there are no errors and the testing is accurate<br>• Errors that are present should be picked up on<br>• Do not take type of test into account – we know what they are testing |

## Overall Band and Marks

Award the evidence and mark based on the best fit overall. For full marks test 6 needs to be Band 3.

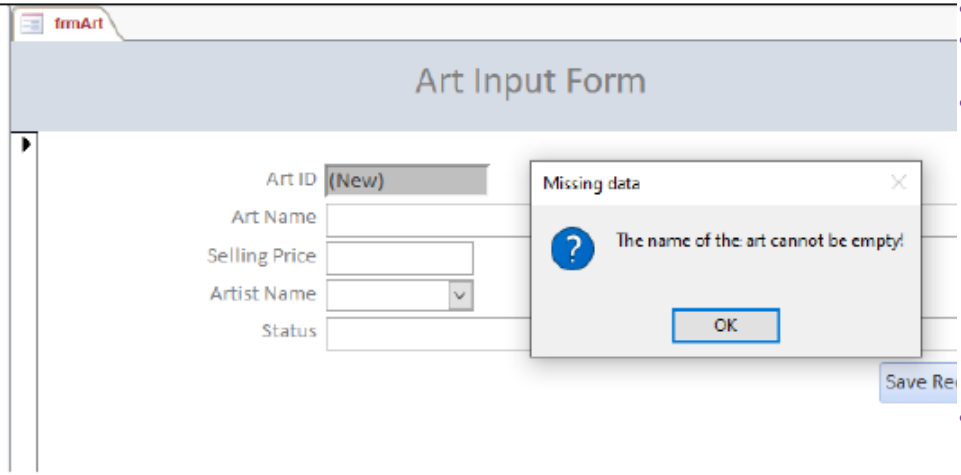
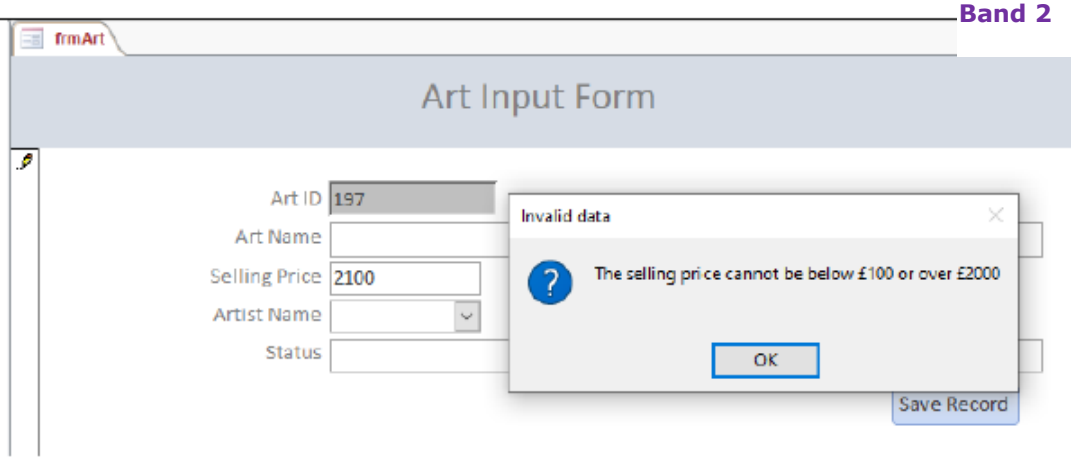
## Example A

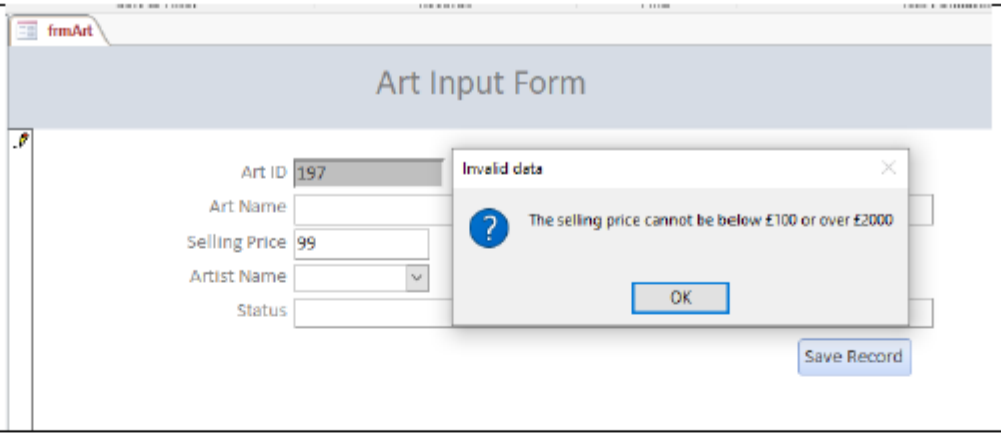
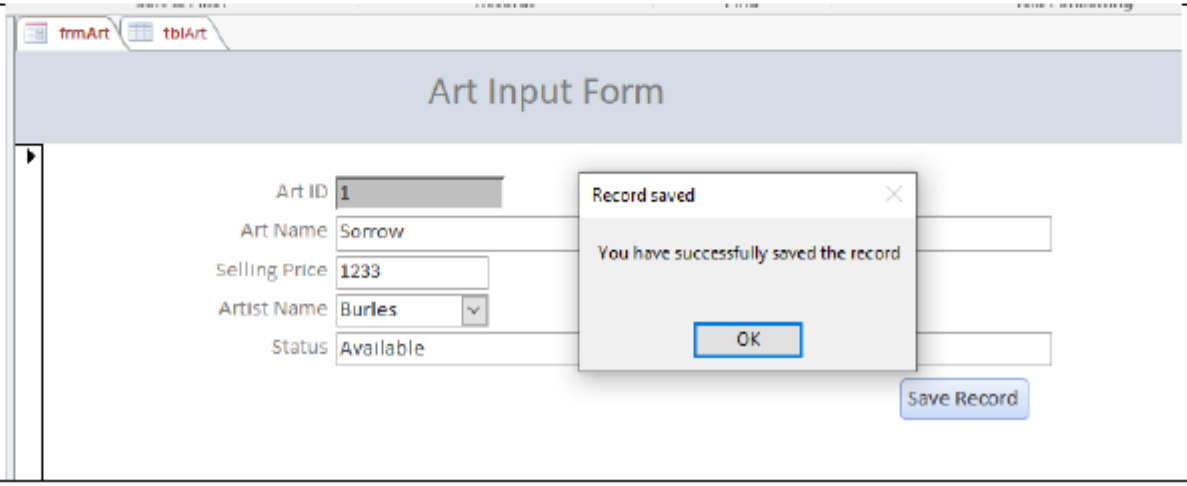
| Test No | Type of test | Test Data | Expected Results | Screen-print of test and results |
|---|---|---|---|---|
| 1 | | | When the form is opened, it should load on an empty record, ready to be filled it |  |



- Test is from the list (test 1)
- It is acceptable not to have test data for this test.
- Expected results are specific
- Actual results show that the form is ready for input. The actual result matches the test and the test data

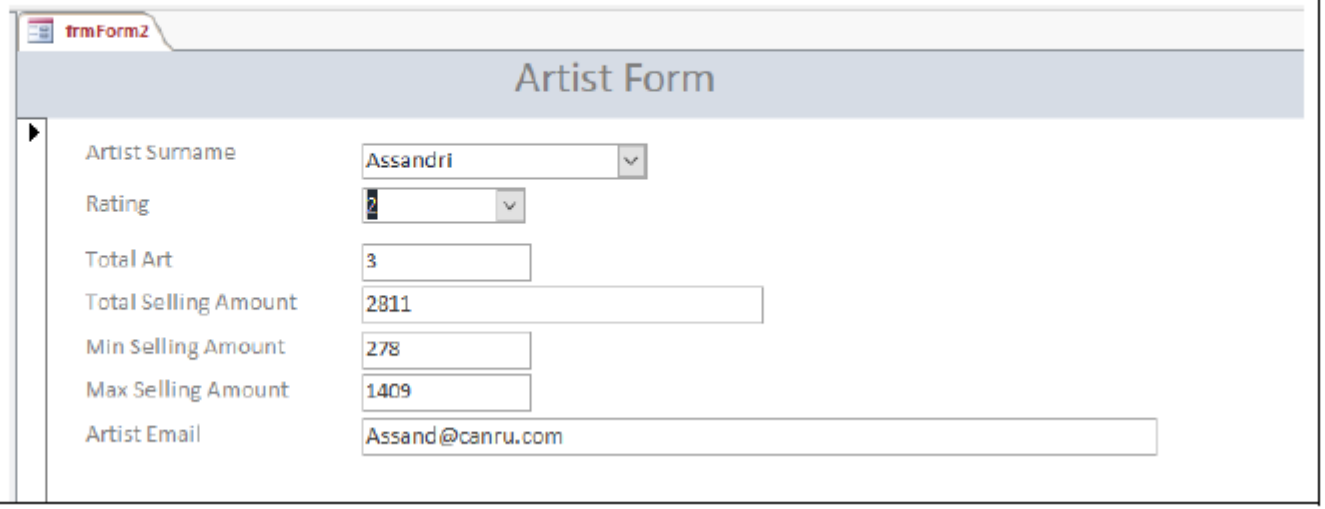
**Band 3**

| | | | | | |
|---|---|---|---|---|---|
| 2 | | | The form should provide an error message if the ArtName field is left blank whilst trying to save the record |  | • Test is from the list (test 2)<br>• There is no test data. There should have been test data specified for all the fields.<br>• Expected results are sensible but not specific i.e., you can tell that an error message should appear but no idea what the error message is going to be. Should have said what the error message will say or word the expected results so that it is known what the user will see. For example, an error message will be displayed telling the user that the name of the art must be input.<br>• Actual results do show an error message but cannot be matched to any test data.<br>**Band 2** |
| 3 | | 2100 | The form should provide an error message if the Selling Price is above the expected range of 2000 |  | • Test is from the list (test 3)<br>• Test data has been given but you must guess what field it is for. There should have been test data specified for all the fields.<br>• Expected results are sensible but not specific i.e., you can tell that an error message should appear but no idea what the error message is going to be.<br>• Actual results do show an error message and the Selling Price can be matched to the test data.<br>**Band 2** |
| 4 | | 99 | The form should provide an error message if the Selling | | • Test is from the list (test 4)<br>• Test data has been given but you must guess what field it is for. There should have been test data specified for all the fields.<br>• Expected results are sensible but not specific i.e., you can tell that an error message should appear but no idea what the error message is going to be.<br>• Actual results do show an error message and the Selling Price can be matched to the test data.<br>**Band 2** |

| | | | | |
|---|---|---|---|---|
| | | | Price is below the expected range of 100 |  |
| 5 | | "Jackson" | The form should provide an error message if an invalid input has been entered in the name field | • Test is from the list (test 5)<br>• Test data has been given but you must guess what field it is for. There should have been test data specified for all the fields.<br>• Expected results are sensible but not specific i.e., you can tell that an error message should appear but no idea what the error message is going to be.<br>• There are no actual results<br>**Band 1** |
| 6 | | | The form should provide a messagebox stating that the form has been saved |  |

- Test is from the list (test 6)
- No test data has been given. Test data should be given for all the fields.
- The expected results are poor. The expected result is that the record will be added to tblArt with an ArtID of ### and that a successful save message will appear.
- The actual results are not detailed. There is no evidence of the record being in the table. The record shown has an ArtID of 1, which suggest the record exists and the candidate may have just edited it,

**Band 1**

| | | | | |
|---|---|---|---|---|
| 7 | | "Assandri", 2 | The form should show all expected details once the artist name is selected |  |

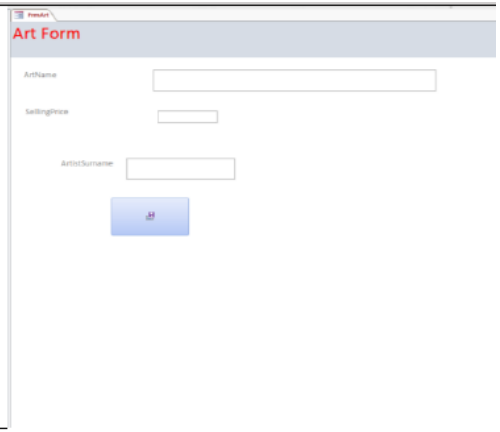
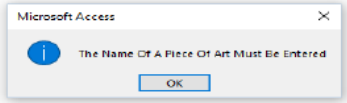
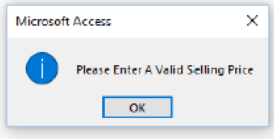


- Test is from the list (test 7)
- Test data has been given but you have to guess at what fields it is for
- The expected results are poor. There should have been a clear account of what is expected. When the Artist's surname has been selected these details should appear
  - Artist's email: Assand@canru.com
  - Total art: 3
  - Total Selling Amount: 2811 etc. etc.
- Actual results are shown but you have to guess whether they are what is expected.

| | Test | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Band** | 3 | 2 | 2 | 2 | 1 | 1 | 2 |
| Comments | | | | | | | |
| Best fit is top of band 2 | | | | | | | |
| **Final Band** | 2 | | | | | | |
| **Final Mark** | 4 | | | | | | |

**Band 2**

## Example B

| | |
|---|---|
| When the form opens, I expect it to be ready for data entry. |  |
| I expect a message to pop up across the user's screen, letting them know that they need to enter the name of a piece of art. |  |
| I expect a message to pop up across the user's screen informing them that they need to enter a valid selling price. |  |

Test is from the list (test 1)

- No test data has been given
- The expected result is clear
- The actual result matches the expected result but cannot.

**Band 2**

Test is from the list (test 2)

- No test data has been given
- The expected results are clear
- The actual results do not prove the test has been successful i.e., you cannot see the form or the data on it.

**Band 1**

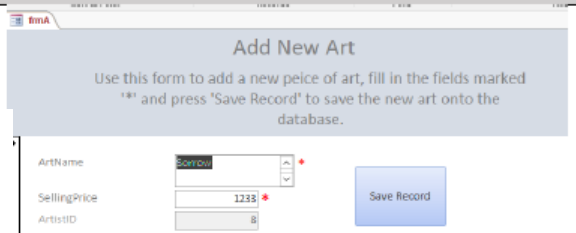
Test is from the list (test 3)

- No test data has been given
- The expected results are clear
- The actual results do not prove the test has been successful i.e., you cannot see the form or the data on it.

**Band 1**

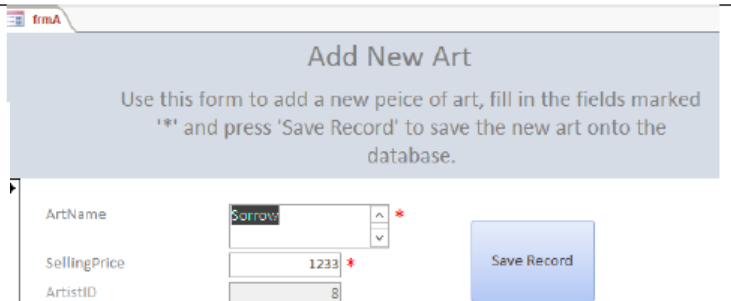
| | Test | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Band** | 2 | 1 | 1 | 0 | 0 | 0 | 0 |
| Comments | | | | | | | |
| Best fit is top of band 1 | | | | | | | |
| **Final Band** | 1 | | | | | | |
| **Final Mark** | 2 | | | | | | |

## Example C

| 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 | ArtName: blank<br>SellingPrice: 1233<br>ArtistID: 8 | User should be able to enter their name to add into database |  |

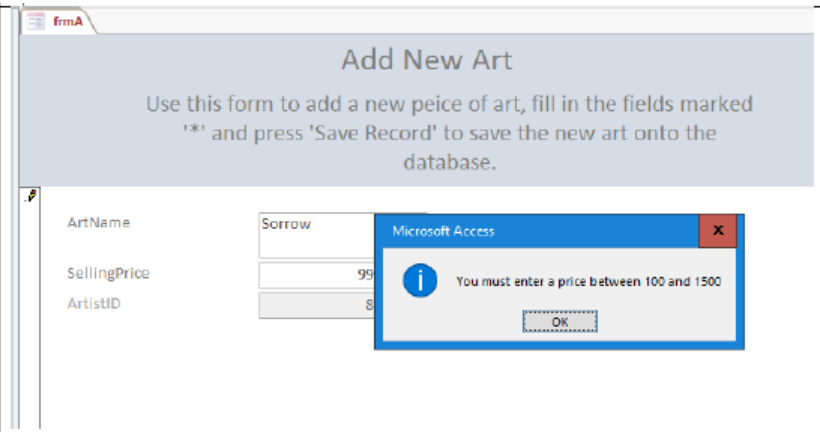
- Test is from the list (test 1)
- Test data has been given for all fields and is specific.
- Expected results are not sensible as the test is supposed to be a test to make sure the ArtName cannot be left blank.
- The actual result matches the test data but does not prove anything.

**Band 1**

| | | | | |
|---|---|---|---|---|
| 2 | N | Art name: shown<br>SellingPrice: 1233<br>ArtistID: 8 | User should be able to see an Art name |  |

- Test is from the tests given (test 2)
- Test data has been given for all fields and is specific.
- Expected results seem to mean the art name should be present but it is not entirely clear and it is not specific
- The actual result matches the test data but does not prove anything.

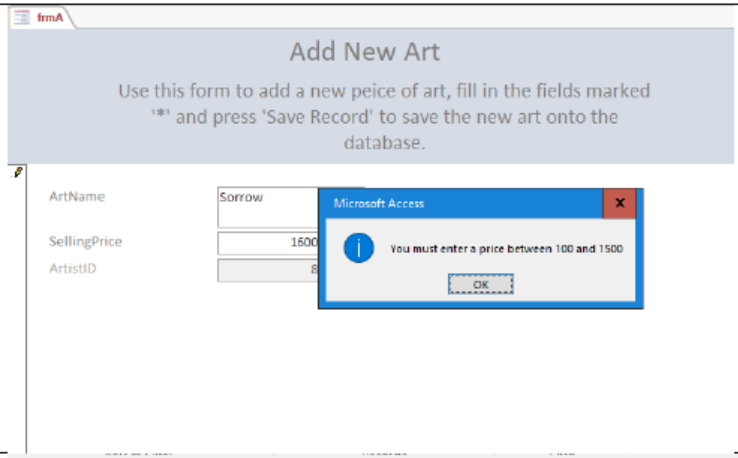
**Band 1**

| | | | | |
|---|---|---|---|---|
| 3 | R | ArtName: Sorrow<br>SellingPrice:99<br>ArtistID: 8 | An error message will appear saying 'You must enter a price between 100 and 1500' |  |



- Test is from the given tests (test 4)
- Test data has been given for all fields and is specific.
- Expected results good except the upper range is incorrect as it should be 2000.
- The test data can just about be seen in the actual result and the error message matches the expected result.

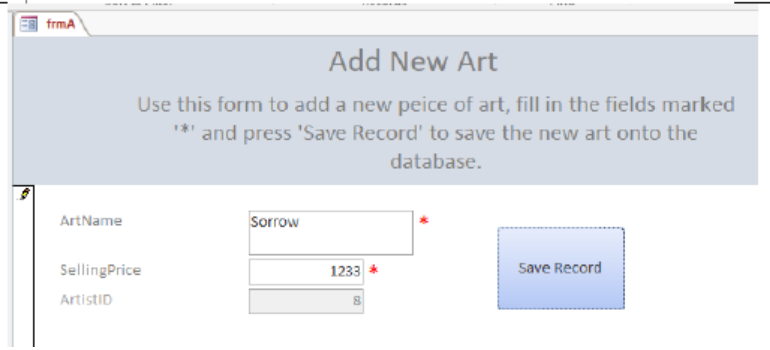
**Band 3**

| | | | | |
|---|---|---|---|---|
| 4 | R | ArtName: Sorrow<br>SellingPrice:1600<br>ArtistID: 8 | An error message will appear saying 'You must enter a price between 100 and 1500' |  |



- Test is from the given tests (test 3)
- Test data has been given for all fields and is specific.
- Expected results good except the upper range is incorrect as it should be 2000.
- The test data can just about be seen in the actual result and the error message matches the expected result.

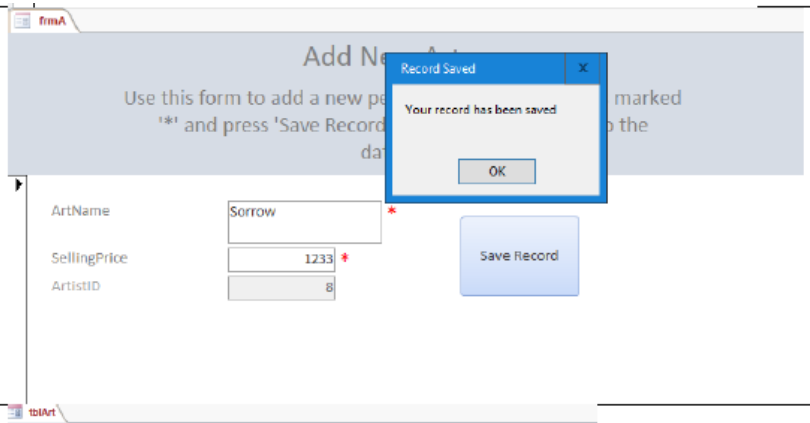
**Band 3**

| | | | | |
|---|---|---|---|---|
| 5 | N | ArtName: Sorrow<br>SellingPrice:1233<br>ArtistID: disabled | A user won't be able to enter an artist ID as it was disabled in the property sheet so an invalid ID can't be entered |  |



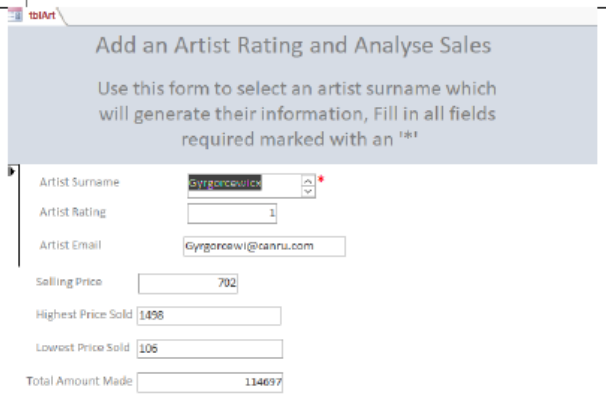
- Test is from the given tests (test 5)
- Test data has been given for all fields and is specific; however, it does not make sense as the test is supposed to test that a piece of art cannot be assigned to an artist that does not exist. This would prevent any artist being assigned to a piece of art.
- Expected results are not relevant to what the test is supposed to be about
- The test data can be seen in the actual result and the actual result matches the expected result

**Band 1**

| | | | | |
|---|---|---|---|---|
| 6 | N | ArtName: Sorrow<br>SellingPrice: 1233<br>ArtistID: 8<br>Press save button | Information will be saved to tblArtist, a message will appear saying 'Your record has been saved' |  |

- Test is from the given tests (test 6)
- Test data has been given for all fields and is specific.
- Expected results are good.
- The test data can be seen in the actual result; however, the candidate has not gone on to show the record in the table.
- The test is still worth band 3

**Band 3**

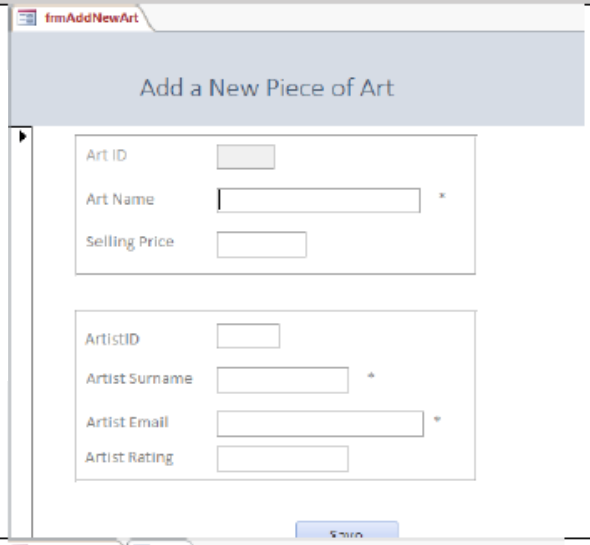
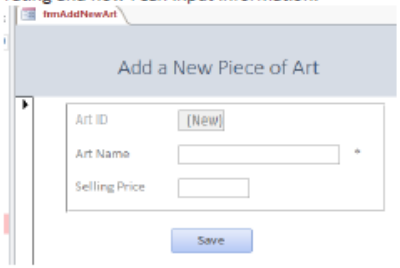
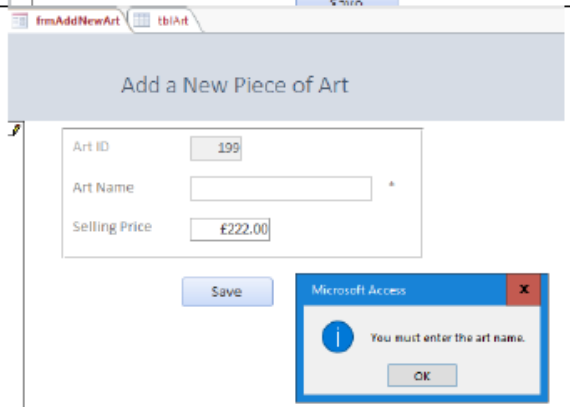
| | | | | |
|---|---|---|---|---|
| 7 | N | ArtistEmail: Gyrgorcewi@canru.com<br>Highest Price:1498<br>Lowest Price:106<br>Total Amount:114697 | All information will be visible to the user |  |

- Test is from the given tests (test 7)
- The test data is what should be present in the expected results. Therefore, there is no test data present.
- The expected result (considering the bullet point above) is quite detailed

**Band 2**

| | Test | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Band** | 1 | 1 | 3 | 3 | 1 | 3 | 2 |
| Comments | | | | | | | |
| The testing is better than the bottom of band 2 but not quite enough to reach the bottom of band 3 | | | | | | | |
| **Final Band** | 2 | | | | | | |
| **Final Mark** | 4 | | | | | | |

# Example D

| Test No | Type of test (N, R, X) | Test data | Expected results | Add screenprint(s) of the results of this test (and any retests)<br>Ensure you show the test data used in the screenprint(s) | Only complete this column if the results are not as expected<br><br>Explain the error<br>If you correct the error explain how you have done it including screenprint(s) |
|---|---|---|---|---|---|
| 1 | N | Open the form on form view | The form will be blank and the ID's will say "(New)". |  | The form will not let me enter information as it says the fields do not exist.<br>I took away the artist surname, ID, email and rating and now I can input information.<br>  |
| 2 | N | Art Name: Blank<br>Selling Price:£222 | An error message will come up saying "You need to enter the art name." |  | |

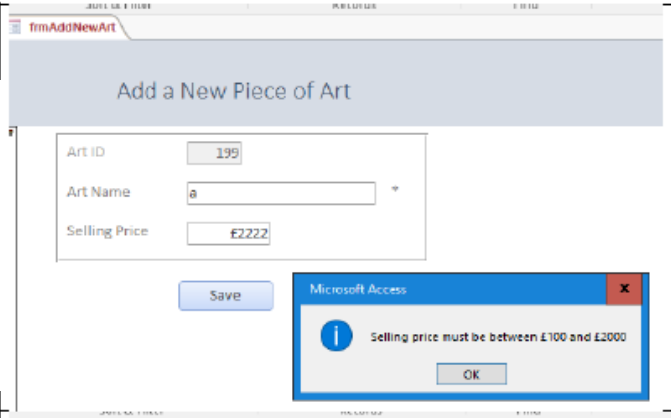
- Test is from the given tests (test 1)
- Test data has been given and is specific (it is fine to have no test data for this test too)
- The expected result is quite detailed
- The actual results matches the expected result
- The candidate has also found an error and had detailed how it has been solved.

**Band 3**

- Test is from the given tests (test 2)
- Test data has been given and is specific (could have specified the Art ID would be generated too)
- The expected result is detailed
- The actual result matches the expected result, and the test data can be seen.

**Band 3**

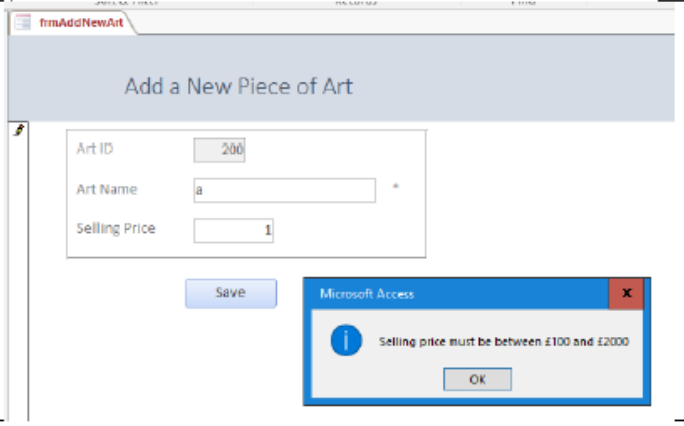
| | | | |
|---|---|---|---|
| 3 | N | Art Name: Blank<br>Selling Price: £2222 | An error message will come up saying "The selling price must be between £100 and £2000" |




- Test is from the given tests (test 3)
- Test data has been given and is specific (could have specified the Art ID too)
- The expected result is detailed
- The actual result matches the expected result, and the test data can be seen.

**Band 3**

| | | | |
|---|---|---|---|
| 4 | N | Art name : a<br>Selling Price :£1 | An error message will come up saying "The selling price must be between £100 and £2000" |




- Test is from the given tests (test 4)
- Test data has been given and is specific (could have specified the Art ID too)
- The expected result is detailed
- The actual result matches the expected result, and the test data can be seen.

**Band 3**

| | Test | | | | | | |
|---|---|---|---|---|---|---|---|
| | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Band** | 3 | 3 | 3 | 3 | 0 | 0 | 0 |
| Comments | | | | | | | |
| 4 tests have achieved band 3, which is a good band 3 standard. However, test 7 is missing | | | | | | | |
| **Final Band** | 3 | | | | | | |
| **Final Mark** | 5 | | | | | | |