

Unit 2 Creating Systems to Manage Information



Level 3 National in Information Technology

January 2021

Activity 4 Marking Guidance and Marked Examples

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Activity 4 – Testing (20 minutes)

How examiners approach marking this activity

Tests to be carried out

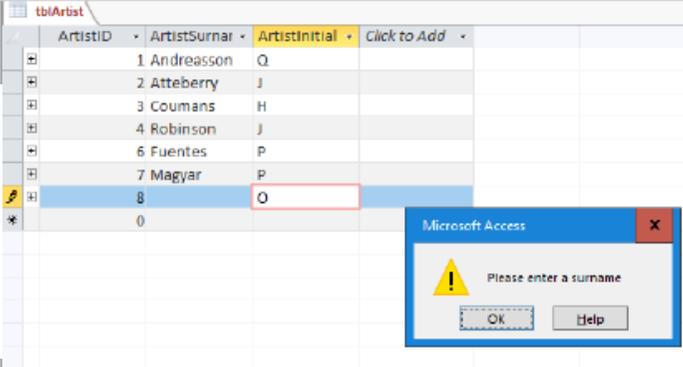
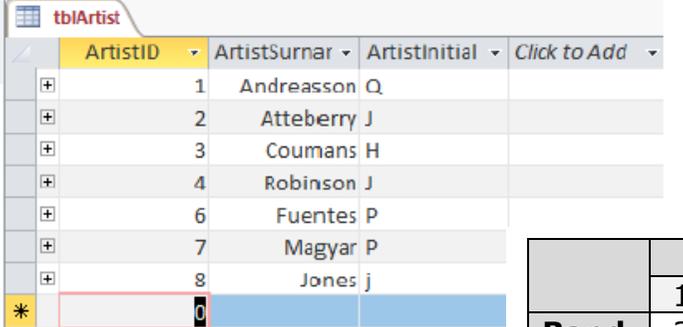
1. a record will not save without artist's surname present
2. a record for an artist will not save without the artist's initial in the correct format
3. a record will not save if a gallery is assigned an invalid gallery type
4. a record will not save if the exhibition is for an invalid artist
5. a record will not save if the number of days is below the accepted range
6. a record will not save if the number of days is above the accepted range

Band 1	<ul style="list-style-type: none">• The test will not be from the tests given or it is from the list but inappropriate• There will be no test data, or it will not relate to the test being carried out• Expected results may be inappropriate• Errors may be present that have not been identified• Do not take type of test into account – we know what they are testing
Band 2	<ul style="list-style-type: none">• The test will be from the tests given, but it may not be entirely appropriate• There will be test data, but it may be incomplete or general e.g., leave surname blank rather than stating exactly what data will be used in each field• Expected results will be sensible but may not be detailed e.g. 'error message' rather than 'error message saying surname has to be present'• Actual results will be present, and appropriate• Errors may/may not have been found• Do not take type of test into account – we know what they are testing
Band 3	<ul style="list-style-type: none">• The test will be from the tests given and it will be appropriate• Test data will be specific for all fields• Expected results will be specific• Actual results will show all the test data used and any relevant messages• Do not penalise if there are no errors and the testing is accurate• Errors that are present should be picked up on• Do not take type of test into account – we know what they are testing

Overall Band and Marks

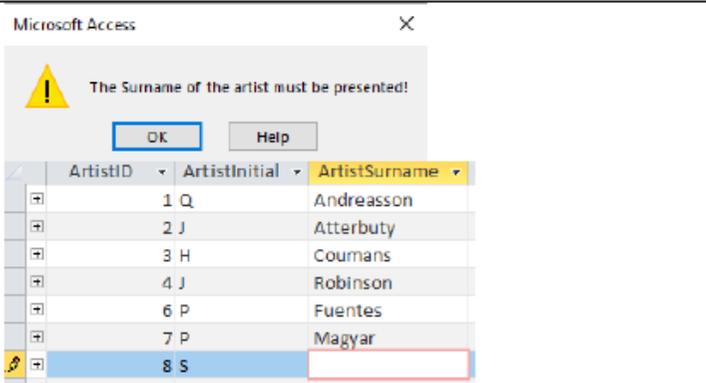
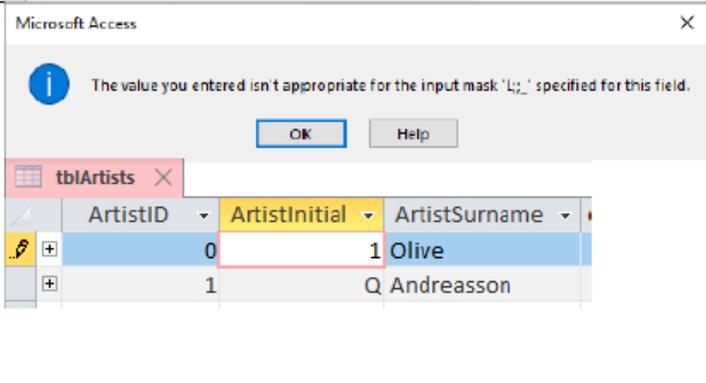
Award the evidence and mark based on the best fit overall.

Example A

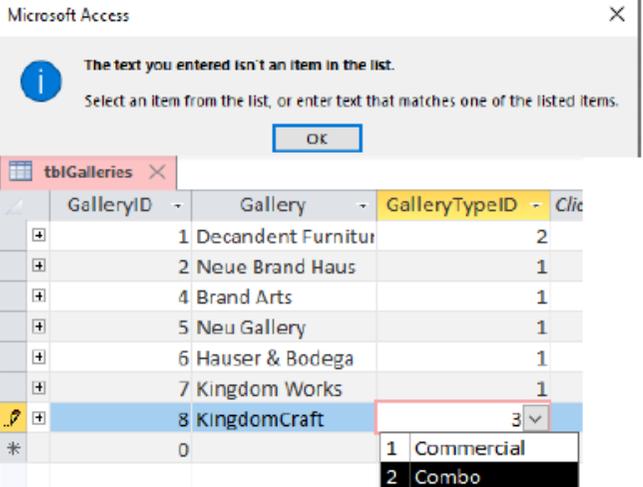
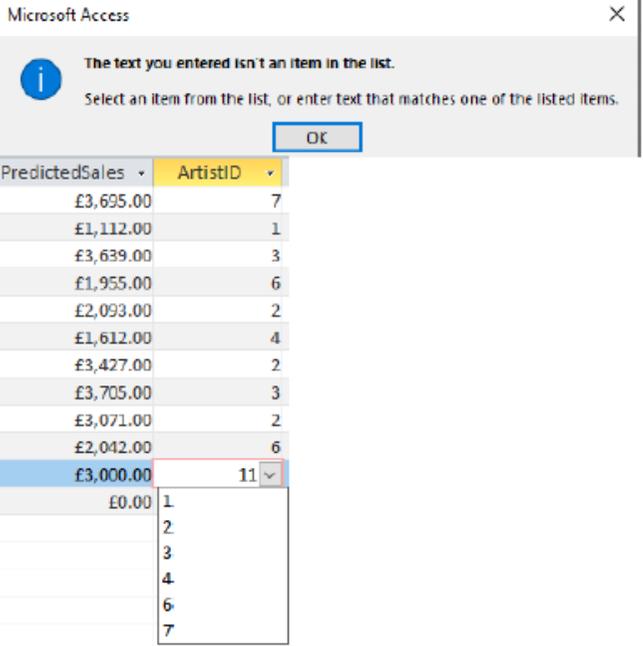
Test No	Type of test (N, R, X)	Test data	Expected results	Add screenshot(s) of the results of this test (and any retests) Ensure you show the test data used in the screenshot(s)	Only complete this column if the results are not as expected Explain the error If you correct the error explain how you have done it including screenshot(s)
1	N	ArtistID: 8 ArtistSurname: ArtistInitial: O	An error message will appear saying "please enter a surname"		
<ul style="list-style-type: none"> • Test is from the list (test 1) • Test data is given for each field and is appropriate, which is good • Expected results are specific • Actual results show all the data and error message. The actual result matches the test and the test data 					
Band 3					
2	R	ArtistID: 8 ArtistSurname: Jones ArtistInitial: j	An error message will appear saying "please enter an initial in uppercase"		The database did not detect the lowercase letter as I have not formatted the validation correctly
<ul style="list-style-type: none"> • Test is from the list (test 2) • Test data is given for each field and is appropriate, which is good • Expected results are specific • Actual results do not match the expected results and the candidate has recognised this 					
Band 3					

	Test					
	1	2	3	4	5	6
Band	3	3	0	0	0	0
Comments						
2 tests have achieved band 3. This is enough to award band 2						
Final Band	2					
Final Mark	4					

Example B

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)	Only complete this column if the results are not as expected Explain the error If you correct the error explain how you have done it including screenprint(s)
1	N	ArtistID:8 ArtistInitial:S ArtistSurname: Blank	Error message saying that the surname must be presented.		
<ul style="list-style-type: none"> The test is a given test (test 1) The test data is specific and relevant for all fields The error message is specific The data shown in the actual results matches the test data The actual results match the expected results 					
<p>Band 3</p>					
2	R	ArtistID:0 ArtistInitial: 1 ArtistSurname: Olive	Error message saying that the value entered does not meet the input mask/format.		
<ul style="list-style-type: none"> The test is a given test (test 2) The test data is specific and relevant for all fields. The error message is specific (Do not expect customised error messages for this field) The data shown in the actual results matches the test data The actual results match the expected results 					
<p>Band 3</p>					

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<p>3</p>	<p>X</p>	<p>GalleryID: 8 Gallery: KingdomCraft GalleryTypeID: 3</p>	<p>Error message saying that the value entered is not in the acceptable list of values and that the user must enter a value from the list given below.</p>	 <p>The screenshot shows a Microsoft Access error dialog box with the message: "The text you entered isn't an item in the list. Select an item from the list, or enter text that matches one of the listed items." Below the dialog is a table titled "tblGalleries" with columns: GalleryID, Gallery, GalleryTypeID, and Client. The data rows are:</p> <table border="1"> <thead> <tr> <th>GalleryID</th> <th>Gallery</th> <th>GalleryTypeID</th> <th>Client</th> </tr> </thead> <tbody> <tr><td>1</td><td>Decadent Furnitur</td><td>2</td><td></td></tr> <tr><td>2</td><td>Neue Brand Haus</td><td>1</td><td></td></tr> <tr><td>4</td><td>Brand Arts</td><td>1</td><td></td></tr> <tr><td>5</td><td>Neu Gallery</td><td>1</td><td></td></tr> <tr><td>6</td><td>Hauser & Bodega</td><td>1</td><td></td></tr> <tr><td>7</td><td>Kingdom Works</td><td>1</td><td></td></tr> <tr><td>8</td><td>KingdomCraft</td><td>3</td><td></td></tr> <tr><td>*</td><td>0</td><td>1</td><td>Commercial</td></tr> <tr><td></td><td></td><td>2</td><td>Combo</td></tr> </tbody> </table>	GalleryID	Gallery	GalleryTypeID	Client	1	Decadent Furnitur	2		2	Neue Brand Haus	1		4	Brand Arts	1		5	Neu Gallery	1		6	Hauser & Bodega	1		7	Kingdom Works	1		8	KingdomCraft	3		*	0	1	Commercial			2	Combo	
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2	Neue Brand Haus	1																																											
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5	Neu Gallery	1																																											
6	Hauser & Bodega	1																																											
7	Kingdom Works	1																																											
8	KingdomCraft	3																																											
*	0	1	Commercial																																										
		2	Combo																																										
<p>4</p>	<p>X</p>	<p>ExhibitionID: 11 ExhibitionStartDate: 07/02/2021 NumberOfDays:10 PredictedSales: £3000.00 ArtistID: 11 GalleryID: 7</p>	<p>Error message saying that the value entered is not in the acceptable list of values and that the user must enter a value from the list given below.</p>	 <p>The screenshot shows a Microsoft Access error dialog box with the message: "The text you entered isn't an item in the list. Select an item from the list, or enter text that matches one of the listed items." Below the dialog is a table titled "PredictedSales" with columns: PredictedSales and ArtistID. The data rows are:</p> <table border="1"> <thead> <tr> <th>PredictedSales</th> <th>ArtistID</th> </tr> </thead> <tbody> <tr><td>£3,695.00</td><td>7</td></tr> <tr><td>£1,112.00</td><td>1</td></tr> <tr><td>£3,639.00</td><td>3</td></tr> <tr><td>£1,955.00</td><td>6</td></tr> <tr><td>£2,093.00</td><td>2</td></tr> <tr><td>£1,612.00</td><td>4</td></tr> <tr><td>£3,427.00</td><td>2</td></tr> <tr><td>£3,705.00</td><td>3</td></tr> <tr><td>£3,071.00</td><td>2</td></tr> <tr><td>£2,042.00</td><td>6</td></tr> <tr><td>£3,000.00</td><td>11</td></tr> <tr><td>£0.00</td><td>1</td></tr> <tr><td></td><td>2</td></tr> <tr><td></td><td>3</td></tr> <tr><td></td><td>4</td></tr> <tr><td></td><td>6</td></tr> <tr><td></td><td>7</td></tr> </tbody> </table>	PredictedSales	ArtistID	£3,695.00	7	£1,112.00	1	£3,639.00	3	£1,955.00	6	£2,093.00	2	£1,612.00	4	£3,427.00	2	£3,705.00	3	£3,071.00	2	£2,042.00	6	£3,000.00	11	£0.00	1		2		3		4		6		7					
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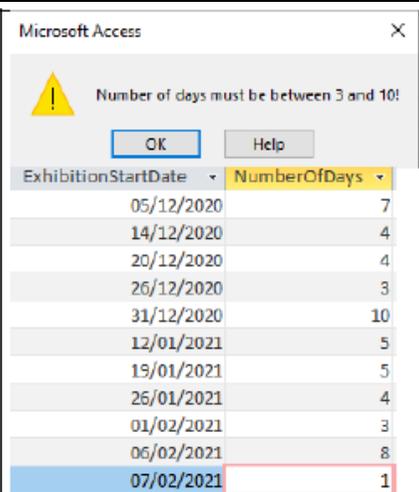
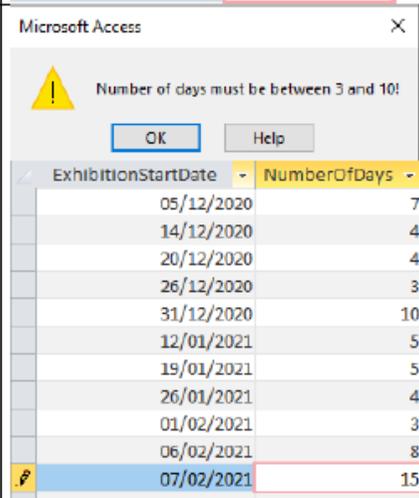
- The test is a given test (test 3)
- The test data is specific and relevant for all fields.
- The error message is specific
- The data shown in the actual results matches the test data
- The actual results match the expected results

Band 3

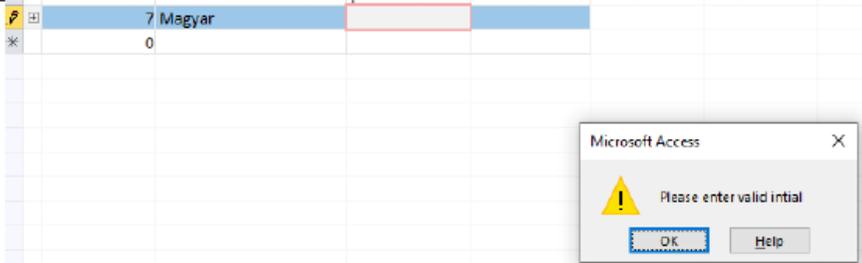
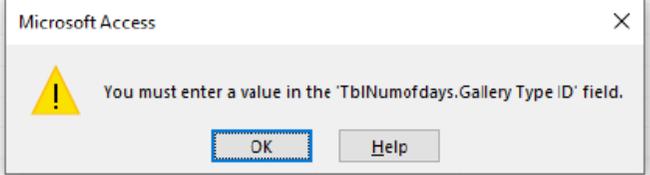
- The test is a given test (test 4)
- The test data is specific and relevant for all fields.
- The error message is specific
- Some of the test data is missing from the actual results. What is there matches the test data
- The actual results match the expected results

Band 3 (has slight weakness but still good enough for band 3)

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5	X	ExhibitionID: 11 ExhibitionStartDate: 07/02/2021 NumberOfDays:1 PredictedSales: £3000.00 ArtistID: 2 GalleryID: 7	Error message saying that the value entered is below the accepted range which is between 3 and 10 days.	 <table border="1" data-bbox="920 335 1339 667"> <thead> <tr> <th>ExhibitionStartDate</th> <th>NumberOfDays</th> </tr> </thead> <tbody> <tr><td>05/12/2020</td><td>7</td></tr> <tr><td>14/12/2020</td><td>4</td></tr> <tr><td>20/12/2020</td><td>4</td></tr> <tr><td>26/12/2020</td><td>3</td></tr> <tr><td>31/12/2020</td><td>10</td></tr> <tr><td>12/01/2021</td><td>5</td></tr> <tr><td>19/01/2021</td><td>5</td></tr> <tr><td>26/01/2021</td><td>4</td></tr> <tr><td>01/02/2021</td><td>3</td></tr> <tr><td>06/02/2021</td><td>8</td></tr> <tr><td>07/02/2021</td><td>1</td></tr> </tbody> </table>	ExhibitionStartDate	NumberOfDays	05/12/2020	7	14/12/2020	4	20/12/2020	4	26/12/2020	3	31/12/2020	10	12/01/2021	5	19/01/2021	5	26/01/2021	4	01/02/2021	3	06/02/2021	8	07/02/2021	1																																																		
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6	X	ExhibitionID: 11 ExhibitionStartDate: 07/02/2021 NumberOfDays:15 PredictedSales: £3000.00 ArtistID: 2 GalleryID: 7	Error message saying that the value entered is above the accepted range which is between 3 and 10 days.	 <table border="1" data-bbox="920 813 1339 1165"> <thead> <tr> <th>ExhibitionStartDate</th> <th>NumberOfDays</th> </tr> </thead> <tbody> <tr><td>05/12/2020</td><td>7</td></tr> <tr><td>14/12/2020</td><td>4</td></tr> <tr><td>20/12/2020</td><td>4</td></tr> <tr><td>26/12/2020</td><td>3</td></tr> <tr><td>31/12/2020</td><td>10</td></tr> <tr><td>12/01/2021</td><td>5</td></tr> <tr><td>19/01/2021</td><td>5</td></tr> <tr><td>26/01/2021</td><td>4</td></tr> <tr><td>01/02/2021</td><td>3</td></tr> <tr><td>06/02/2021</td><td>8</td></tr> <tr><td>07/02/2021</td><td>15</td></tr> </tbody> </table>	ExhibitionStartDate	NumberOfDays	05/12/2020	7	14/12/2020	4	20/12/2020	4	26/12/2020	3	31/12/2020	10	12/01/2021	5	19/01/2021	5	26/01/2021	4	01/02/2021	3	06/02/2021	8	07/02/2021	15		<table border="1" data-bbox="1500 813 2016 1069"> <thead> <tr> <th rowspan="2"></th> <th colspan="6">Test</th> </tr> <tr> <th>1</th> <th>2</th> <th>3</th> <th>4</th> <th>5</th> <th>6</th> </tr> </thead> <tbody> <tr> <td>Band</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> <td>3</td> </tr> <tr> <td colspan="7">Comments</td> </tr> <tr> <td colspan="7">6 tests have achieved band 3.</td> </tr> <tr> <td>Final Band</td> <td colspan="6">3</td> </tr> <tr> <td>Final Mark</td> <td colspan="6">6</td> </tr> </tbody> </table>		Test						1	2	3	4	5	6	Band	3	3	3	3	3	3	Comments							6 tests have achieved band 3.							Final Band	3						Final Mark	6					
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Example C

Test No	Type of test (N, R, X)	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)
	N	Table: Artist Surname	I expect an error message to pop up telling the user they must enter a surname	
	E	Table: Artist Surname: Magyar Initial: P	I expect an error message to be displayed saying enter valid initial	
	E	Numofdays Gallery	I expect an error message if an invalid gallery type is assigned to a gallery	

- The test is a given test (test 5)
- Test data shows what field will be tested but nothing else. Could not use this to test.
- The error message is specific
- The testing appears to have taken place before the tables were populated – this is fine if they wish to do it this way
- The test results do show an error message.
- The actual results match the expected results

Band 2

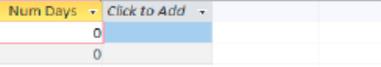
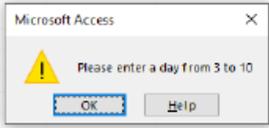
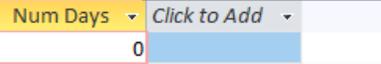
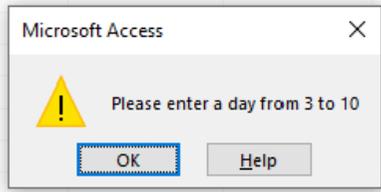
- The test is a given test (test 2)
- There is test data. The data for surname is fine, but the test data for initial does not make sense (a valid initial is 1 character and uppercase) this is supposed to be testing erroneous.
- The error message is specific
- The data shown in the actual results does not match the test data but is appropriate for the test being carried out (they have left the initial blank in the test itself).
- The actual results match the expected results

Band 2

- The test is a given test (test 3)
- There is no test data that is of any use
- The error message is specific
- The actual result does not show anything being tested and is clearly unsuitable for this test. It is a table lookup test to make a GalleryTypeID (foreign key check) exists.

Band 1

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x	Number of days	I expect an error message to pop up if the number of days is below the accepted range	 
<ul style="list-style-type: none"> There is no test data that is of any use but taking this as test 5 – testing below 3 The expected result is vague. It should be giving an idea about what the error message will be The actual result does show that a 0 has been used to test and that it has resulted in an error message. <p>Band 2</p>			
x	Number of days	I expect an error message to pop up if the number of days is above the accepted range	 
<ul style="list-style-type: none"> There is no test data that is of any use but taking this as test 6, testing above 10 The expected result is vague. It should be giving an idea about what the error message will be The actual result is not appropriate as it is clear to see the test data used in the screenprint is 0. <p>Band 1</p>			

	Test					
	1	2	3	4	5	6
Band	2	2	1	2	2	1
Comments						
Mixture of bands 1 and 2. Enough for bottom of band 2						
Final Band	2					
Final Mark	3					