## Mark Scheme (Provisional)

Summer 2021

Pearson Edexcel International Advanced Subsidiary In Information Technology (WIT14)
Unit 4

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## General Marking Guidance

- All candidates must receive the same treatment. Examiners must mark the first candidate in exactly the same way as they mark the last.
- Mark schemes should be applied positively. Candidates must be rewarded for what they have shown they can do rather than penalised for omissions.
- Examiners should mark according to the mark scheme not according to their perception of where the grade boundaries may lie.
- There is no ceiling on achievement. All marks on the mark scheme should be used appropriately.
- All the marks on the mark scheme are designed to be awarded. Examiners should always award full marks if deserved, i.e. if the answer matches the mark scheme. Examiners should also be prepared to award zero marks if the candidate's response is not worthy of credit according to the mark scheme.
- Where some judgement is required, mark schemes will provide the principles by which marks will be awarded and exemplification may be limited.
- When examiners are in doubt regarding the application of the mark scheme to a candidate's response, the team leader must be consulted.
- Crossed out work should be marked UNLESS the candidate has replaced it with an alternative response.


## Note to examiners:

Where example screenshots are included, these are indicative content only and not a definitive answer. Students should receive credit based on the marking instructions in the answer column.

| Question number | Answer |  | Additional Guidance | Mark |
| :---: | :---: | :---: | :---: | :---: |
| 1(a)(i) | Presence check and format check for contact_telephone |  |  |  |
|  | A1 | Presence check on contact_telephone field Required set to yes <br> OR validation rule of 'Is Not Null' | Does not need validation text as no mark for given that | 1 |
|  | A2 | Input mask or suitable validation rule on contact_telephone field <br> Input mask 00000000000 <br> Input mask 00000000000;i, | Accept alternatives e.g. suitable validation rule | 1 |
|  |  |  | Total | 2 |
| 1(a)(ii) |  | List check for quiz_day |  |  |
|  | A3 | List box or combo box added to quiz_day field | Must see field it is applied to. <br> Should be design view but can accept datasheet view. | 1 |
|  | A4 | Correct values <br> Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday | Accept datasheet view so long as can see all the values. <br> Accept any order of days. <br> Accept spelling errors | 1 |
|  | A5 | Limit to list set to Yes |  | 1 |
|  |  |  | Total | 3 |
| 1(a)(iii) |  | Data type for wheelchair access |  |  |
|  | A6 | Yes/No |  | 1 |
|  |  |  | Total | 1 |


| Question number | Answer |  | Additional Guidance | Mark |
| :---: | :---: | :---: | :---: | :---: |
| 1(b) | Edit venue form |  |  |  |
|  | B1 | Form includes all of the fields from the venue table |  | 1 |
|  | B2 | venue_id is disabled |  | 1 |
|  | B3 | Combo/List box has been added to select a venue address | Do not need to see any values for the combo box | 1 |
|  | B4 | One from: <br> - Form labels are appropriate (not database field names) <br> - Form has meaningful title <br> - Entry boxes on form are resized appropriately to reflect the data they will be used to enter <br> - Instructions on how to use <br> - Asterisk on any field except venue_id |  | 1 |
|  | B5 | Form would update to show the venue details for the venue selected in the combo box |  | 1 |
|  | B6 | Button present and suitably labelled e.g. Close |  | 1 |
|  | B7 | Suitable message would display if the data has been changed e.g. the data has changed and has not been saved yet / the save prompt used |  | 1 |
|  | B8 | No more than one suitable message would appear if changes have been made. |  | 1 |
|  |  |  | Total | 8 |


| Question number | Answer | Additional Guidance | Mark |
| :---: | :---: | :---: | :---: |
| 1(c) | Indicative content <br> Analysis <br> - Field called quiz_day in the table. <br> - It is atomic as it only has one day of the week in it. <br> - It has a list check on it that means the user can only select 1 day of the week as the value for it. <br> - Primary key of venue_id cannot be repeated in the table so cannot add another row for a venue that needs quizzes on more than one day. <br> - If the primary key was removed and further rows added for each venue that has quizzes on more than one day there would be redundant data. <br> Recommendations <br> - Create a new table called quiz days. <br> - Remove the quiz_day field from the venue table <br> - Have a composite primary key of venue_id and quiz_day so that the venue_id could be repeated as many times as needed so long as the day of the week was different <br> - Could keep the list check on the quiz_day field |  | 9 |


| Level | Mark | Descriptor |  |
| :--- | :--- | :--- | :--- |
|  | 0 | No Awardable content |  |
| Level 1 | $1-3$ | $\bullet$ <br> • Analysis is flawed or superficial, containing simple statements that show limited understanding of the subject matter. <br> Level 2 | $4-6$ |
| Level 3 | $7-9$ | • Analysis is sound, containing minor inaccuracies or omissions, showing some understanding of the given issue. <br> $\bullet$ <br> - Solution is workable but may have minor issues. |  |
|  | Analysis is sound and developed, containing ideas that are linked together in a fluent and logical way, showing a <br> - Solution is appropriate and workable. |  |  |



| Question number | Answer |  | Additional Guidance | Mark |
| :---: | :---: | :---: | :---: | :---: |
| 1(e) | Import |  |  |  |
|  | E1 | Quiz table - 80 records |  | 1 |
|  | E2 | Quiz type table - 6 records |  | 1 |
|  | E3 | Setter table - 11 records |  | 1 |
|  |  |  | Total | 3 |
|  |  |  | Total for question 1 | 37 |



| Question number | Answer |  |  |  |  | Additional Guidance | Mark |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2(b)(i) | Venue income query |  |  |  |  |  |  |
|  | - ${ }^{\text {- }}$ ary_report $\times$ - |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
|  |  |  |  |  | Expression | Expression |  |
|  | 4 d ${ }_{4}$ |  |  |  |  |  |  |
|  |  | venue_address <br> tblVenue <br> Group By <br> " 23 Grove Way* Or "114 Albert Avenue | quiz_week_beginning_date tblQuiz <br> Group By <br> $\square$ | num_players: num_players <br> tblQuiz <br> Group By $\square$ |  |  |  |
|  |  | Correct related tab | ables added (venu | e, quiz) |  |  | 1 |
|  |  | Criteria correct for venue_address or venue_id <br> - "23 Grove Way" or "114 Albert Avenue" <br> - 1 or 6 |  |  |  |  | 1 |
|  |  | Calculation for entry fee |  |  |  |  |  |
|  | B3 | Partially correct <br> - 1.5 if the number of players is $>30$ OR <br> - 2 if the number of players <=30 |  |  |  |  | 1 |
|  | B4 | Fully correct <br> - 1.5 if the number of players is $>30$ AND <br> - 2 if the number of players <=30 |  |  |  |  | 1 |
|  | B5 | Calculation correct for income: <br> - num_players*entry fee |  |  |  | Follow through on any errors in entry fee | 1 |
|  | Total |  |  |  |  |  | 5 |



|  | B10 | Total income for overall income uses correct formula e.g. =Sum(Income) | Accept truncation in design view if print view tallies | 1 |
| :---: | :---: | :---: | :---: | :---: |
|  | B11 | Total Income calculated in venue header - mark from design view |  | 1 |
|  | B12 | Overall Income calculated in report footer - mark from design view |  | 1 |
|  | B13 | Monetary values formatted as currency for generated fields - mark from design or print view |  | 1 |
|  | B14 | Report is as given | Checking spelling, case, layout etc, truncation vertical/horizontal. | 1 |
|  | Total |  |  | 9 |
|  |  |  | Total for question 2 | 20 |



| Question number | Answer |  |  | Additional Guidance | Mark |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 3(b) | Chart |  |  |  |  |
|  | Seuir Type Times Used  <br> Seneral   <br> Hnowledge 14  <br> Music 16  <br>   16 |  |  |  |  |
|  |  |  | Quiz types that have been used 14 or more times - General Knowledge =History =Music |  |  |
|  | B1 Bar/column/pie chart created |  |  |  | 1 |
|  | B2 | Meaningful chart title used |  |  | 1 |
|  | B3 | Axis shows quiz type (or legend for pie chart) |  |  | 1 |
|  | B4 | Bar/column <br> - At least one axis shows suitable label Pie <br> - Data values are shown |  |  | 1 |
|  | B5 | Bar/column <br> - Axis contains suitable scale <br> - Or data values are shown Pie |  |  | 1 |




| Question number | Answer | Additional Guidance | Mark |
| :---: | :---: | :---: | :---: |
| 5 | Indicative content |  | 9 |
|  |  |  |  |
|  | - Presence check used when the data must be present before the record is saved |  |  |
|  | - Range check used when there is a specific range of values for a field |  |  |
|  | - Lookup check used to lookup data from another table |  |  |
|  | - List check used when there is a specific list of values for a field <br> - Format (picture) check used when a field has exactly the same format for each value |  |  |
|  | - Format (picture) check used when a field has exactly the same format for each value <br> - Length of data check used when the length of the data in a field has to be limited |  |  |
|  | Consideration and significance |  |  |
|  | Setter table |  |  |
|  | - Presence: setter_last_name and setter_email |  |  |
|  | - Format check: email |  |  |
|  | Quiz type table |  |  |
|  | - Presence: quiz_type field Quiz table |  |  |
|  | - Presence: all non-key fields other than num_player and num_teams (cannot be sure |  |  |
|  | quiz is created after or before the quiz takes place) |  |  |
|  | - Quiz_setter_id. Quiz_venue_id, quiz_type_id lookup checks. All foreign keys so can lookup to the tables where they are primary keys |  |  |
|  | Range checks would not be suitable in any of the tables. |  |  |
|  | List checks would not be suitable in any of the tables. |  |  |
|  | Length of data checks could be set on all text fields as none would use 255 characters. |  |  |


| Level | Mark | Descriptor |
| :--- | :--- | :--- | :--- |
|  | 0 | No Awardable content |
| Level 1 | $1-3$ | - Applies understanding with limited coherence, showing limited understanding of the given issue. <br> - Assessment of solution is superficial or unbalanced, and judgements lack support from evidence. |
| Level 2 | $4-6$ | - Applies understanding to make some coherent connections, showing some understanding of the given issue. <br> - Assessment of solution is partially developed, but this may be unbalanced, using evidence to support some <br> judgements. |
| Level 3 | $7-9$ | - Applies understanding coherently, showing a thorough understanding of the given issue. <br> - Assessment of solution is balanced and developed, using evidence to support judgements throughout. |

