MARK SCHEME

Published

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners’ meeting before marking began, which would have considered the acceptability of alternative answers.

Mark schemes should be read in conjunction with the question paper and the Principal Examiner Report for Teachers.

Cambridge International will not enter into discussions about these mark schemes.

Cambridge International is publishing the mark schemes for the October/November 2018 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.
### Generic Marking Principles

These general marking principles must be applied by all examiners when marking candidate answers. They should be applied alongside the specific content of the mark scheme or generic level descriptors for a question. Each question paper and mark scheme will also comply with these marking principles.

#### GENERIC MARKING PRINCIPLE 1:

Marks must be awarded in line with:

- the specific content of the mark scheme or the generic level descriptors for the question
- the specific skills defined in the mark scheme or in the generic level descriptors for the question
- the standard of response required by a candidate as exemplified by the standardisation scripts.

#### GENERIC MARKING PRINCIPLE 2:

Marks awarded are always **whole marks** (not half marks, or other fractions).

#### GENERIC MARKING PRINCIPLE 3:

Marks must be awarded **positively**:

- marks are awarded for correct/valid answers, as defined in the mark scheme. However, credit is given for valid answers which go beyond the scope of the syllabus and mark scheme, referring to your Team Leader as appropriate
- marks are awarded when candidates clearly demonstrate what they know and can do
- marks are not deducted for errors
- marks are not deducted for omissions
- answers should only be judged on the quality of spelling, punctuation and grammar when these features are specifically assessed by the question as indicated by the mark scheme. The meaning, however, should be unambiguous.

#### GENERIC MARKING PRINCIPLE 4:

Rules must be applied consistently e.g. in situations where candidates have not followed instructions or in the application of generic level descriptors.

#### GENERIC MARKING PRINCIPLE 5:

Marks should be awarded using the full range of marks defined in the mark scheme for the question (however; the use of the full mark range may be limited according to the quality of the candidate responses seen).

#### GENERIC MARKING PRINCIPLE 6:

Marks awarded are based solely on the requirements as defined in the mark scheme. Marks should not be awarded with grade thresholds or grade descriptors in mind.
Evidence 2

Relationships:
- Flights.Flight_No to Codes.Flight_No 2 marks
- Airports.Code to Codes.Arr_Code 2 marks
- Crew.Crew_Code to Flights.Crew 2 marks
### Evidence 1

#### Flights
- Appropriate table name: no N18 1 mark
- Flight_No (or similar) 1 mark
- Depart_Date (or similar) 1 mark
- Depart_Time (or similar) 1 mark
- Arrival_Date (or similar) set as date/time 1 mark
- Arrival_Time (or similar) set as date/time 1 mark
- Crew set as alphanumeric/text 1 mark
- Compound key set ... (or award for Primary Key on ID) 1 mark
- ... on Flight_No/Depart_Date/Depart_Time 1 mark

#### Codes
- Appropriate table name and no N18 1 mark
- Flight_No or other appropriate fieldname 1 mark
- ... Set as Primary Key 1 mark
- Arrival_Code or other appropriate fieldname 1 mark

#### Airports
- Appropriate table name and no N18 1 mark
- Airport_Code/Arrival_Code or other appropriate fieldname 1 mark
- Airport_Name or other appropriate fieldname 1 mark
- All fields in Codes and Airport set as alphanumeric/text 1 mark
### Evidence 3

**Cabin_Crew:**  
- Appropriately named table with no N18 1 mark  
- Payroll_no as alphanumeric/text 1 mark  
- ...Set as Primary Key 1 mark  
- Forename as alphanumeric/text 1 mark  
- Fieldname Surname/Last_Name as alphanumeric/text 1 mark  
- Fieldname Crew_Code/Crew 1 mark  
- ...Alphanumeric/text 1 mark  
- Fieldname Long_Service 1 mark  
- ...Boolean or Yes/No 1 mark  

**Link table:**  
- Created with appropriate table name 1 mark  
- Contains Crew_Code field 1 mark  
- ... in alphanumeric/text format 1 mark  

**Jakarta search:**  
- Arrive Soekarno-Hatta International 1 mark  
- AND 1 mark  
- >#09/01/2018# 1 mark  
- AND 1 mark  
- <#23/01/2018# 1 mark  

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### Evidence 4

All Air Tawara flights to Jakarta between 8th January 2018 and 23rd January 2018

<table>
<thead>
<tr>
<th>Flight No</th>
<th>Airport Name</th>
<th>Departure Date</th>
<th>Departure Time</th>
<th>Arrival Date</th>
<th>Arrival Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>AT004</td>
<td>Soekarno-Hatta International</td>
<td>17 January 2018</td>
<td>19:20</td>
<td>18 January 2018</td>
<td>03:25</td>
</tr>
<tr>
<td>AT005</td>
<td>Soekarno-Hatta International</td>
<td>19 January 2018</td>
<td>07:10</td>
<td>18 January 2018</td>
<td>15:15</td>
</tr>
<tr>
<td>AT019</td>
<td>Soekarno-Hatta International</td>
<td>09 January 2018</td>
<td>07:10</td>
<td>09 January 2018</td>
<td>15:15</td>
</tr>
</tbody>
</table>

- Exported into pdf format with professional appearance: 1 mark
- Duration calculated field: 1 mark
  - (Arrival Date+Time)
  - (Depart Date+Time)
- Average calculation: 1 mark
- Jakarta Report:
  - Appropriate title: 1 mark
  - Both date fields dd/mmmm/yyyy: 1 mark
  - Both time fields hh:mm: 1 mark
  - Search: correct 4 flights: 1 mark
  - Fields Flight number, 2 dates, 2 times, airport name in full: 1 mark
  - Name and candidate details in the footer: 1 mark
Evidence 6

<table>
<thead>
<tr>
<th>Destination</th>
<th>Duration</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amsterdam-Schiphol</td>
<td>08:59</td>
</tr>
<tr>
<td>Atlanta</td>
<td>08:03</td>
</tr>
<tr>
<td>Beijing</td>
<td>07:13</td>
</tr>
<tr>
<td>Cuzco</td>
<td>06:43</td>
</tr>
<tr>
<td>Dublin Ireland</td>
<td>06:56</td>
</tr>
<tr>
<td>Hong Kong</td>
<td>12:00</td>
</tr>
<tr>
<td>Madrid</td>
<td>02:15</td>
</tr>
<tr>
<td>Paris Orly</td>
<td>05:15</td>
</tr>
<tr>
<td>Singapore Changi Internation</td>
<td>07:45</td>
</tr>
<tr>
<td>Soelkamo-Hatta Internation</td>
<td>08:05</td>
</tr>
</tbody>
</table>

The report was used to group by airport, then sorted into ascending order. The correct calculation of average duration was formatted as short time (hh:mm). The duration for each flight was not visible, and the airport names were aligned with the average duration. The header includes an appropriate title with formatting, candidate details with formatting, and a single page with appropriate layout and all content fully visible. The report was exported into PDF format with a professional appearance.
Evidence 7

Number of members from each 8th January 2018

<table>
<thead>
<tr>
<th>Airport_Name</th>
<th>AC1</th>
<th>AC10</th>
<th>AC11</th>
<th>AC12</th>
<th>AC13</th>
<th>AC18</th>
<th>AC2</th>
<th>AC3</th>
<th>AC4</th>
<th>AC5</th>
<th>AC6</th>
<th>AC7</th>
<th>AC8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Amsterdam-Schiphol</td>
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<tr>
<td>Atlanta</td>
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<td>12</td>
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<tr>
<td>Beijing</td>
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<td>Dublin Ireland</td>
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<td>Madrid</td>
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<tr>
<td>Paris Orly</td>
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<tr>
<td>Singapore Changi International</td>
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<tr>
<td>Soekarno-Hatta International</td>
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<td>6</td>
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</tr>
</tbody>
</table>

14 January 2017

Evidence 8

Six from:

- Chart title should **not** include who chart is for
- Is date in title in dd/mm/yyyy or mm/dd/yyyy format?
- Chart title has all required data present
- Wrong chart type – too much data for pie chart
- Wrong chart type – not comparing parts of whole
- No values shown.

Evidence 9

All three are relationships between tables in relational database
- A one-to-one relationship has a table row that is related to only one row in another table
- A one-to-many relationship has a table row that can be related to many rows in another table
- A many-to-many relationship has one or more table rows linked to one or more in another
- A many-to-many relationship uses a mapping table.
Evidence 10

Image ratio of software set to 16:9 1 mark
0 secs:
Title background set to N18image.png … 1 mark
… for 10 second duration 1 mark
Storm Katie appears… 1 mark
… with no animation 1 mark
… in a red bold (easy to read) serif font 1 mark
… positioned as shown 1 mark
… after 2 seconds 1 mark
… with a duration of 7 seconds 1 mark
Soundtrack removed 1 mark
First 1.2 second cut (smooth run in from still) 1 mark
Video portion lasts just 7 seconds 1 mark
Snapshot of final frame extracted in appropriate format 1 mark
…and set as background for credits 1 mark
Credits:
5 seconds long 1 mark
Edited/Produced by 1 mark
Candidate name and numbers in credits in appropriate format 1 mark
All text is a large easily read font with good contrast 1 mark
Movie exported / saved into mov format 1 mark