



Cambridge Assessment International Education
Cambridge International General Certificate of Secondary Education

INFORMATION AND COMMUNICATION TECHNOLOGY

0417/21

Paper 2 Practical Test A

March 2019

MARK SCHEME

Maximum Mark: 80

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 March 2019 series for most Cambridge IGCSE™, Cambridge International A and AS Level components and some Cambridge O Level components.

This syllabus is regulated for use in England, Wales and Northern Ireland as a Cambridge International Level 1/Level 2 Certificate.

This document consists of **18** printed pages.

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.

PUBLISHED

Candidate name, centre number, candidate number

13/02/2019

Header contains: Exam date (Wednesday 13th February) on left
Candidate details on right
1 mark

TAWARA SUMMER SCHOOL

Archaeology practical course and dig summer 2019

Our new international course

last one starts in the last week of August. They will be based

Tawara Summer Schools are well known for

Section break in correct position 1 mark
2 columns with 1 cm space 1 mark

will focus on Greco-Roman sites.

quality summer courses which provide a wealth of varied,

Visits

interesting studies across a huge range of subjects. Until now

There will be visits to the amphitheatre in Amman and

all our courses have been based in Jordan.

Two spelling errors corrected 1 mark

to the fascinating remains in Petra. There will also be a

year we are venturing abroad with a new course. The subject

detailed study of the city of Jerash, just to the north of

will be practical archaeology and will be based near the site

Amman. The highlight of this part of the course will be the

of a Roman city where there will be opportunities to practise

opportunity to join local archaeologists in investigating new

the skills of finding, recovering and recording of artefacts.

parts of the city. This will be a residential part of the course

with travel to, and accommodation in, Jerash itself.

Dates

There are three archaeology on-site courses running this

year. The first starts on the seventh of August 2019 (A1901)

and the second on the twenty first of August (A1902). The

Header and footer items all aligned to respective margins,
appear on all pages with no extra text placeholders 1 mark

1

Footer contains: Page number on left 1 mark
File name and full path on right 1 mark

13/02/2019

Candidate name, centre number, candidate number

Why Jerash?

The city flourished

- | | |
|--|--------|
| Image cropped from bottom | 1 mark |
| Image placed in correct position | 1 mark |
| Text wrapped | 1 mark |
| Align top of text and to left margin | 1 mark |
| Resized to 6.5 cms wide with aspect ratio maintained | 1 mark |

then Roman trading centre. Its history goes further to the Bronze Age. The remains that have been uncovered reveal many buildings and structures of the Roman city. Following occupation in the Byzantine period, it continued to flourish under Arabic rule. While it appears to have been deserted for several centuries until records of its habitation reappear under the Ottoman Empire, new research is finding evidence of inhabitants such as Mamluks, Jewish and Muslim settlements.

The destruction of the city

In 749, a powerful earthquake destroyed many

columns that collapsed along the main street can be seen in situ today. Gradually the city became buried, and almost forgotten, but in recent times, more and more has been uncovered with much more remaining to be excavated (some of it under present day Jerash).

What remains of the city?

There is much preserved of the Roman city including the main street through the centre of the city. This is bordered by impressive columns, some of which are still standing. There is the forum flanked by colonnades, a triumphal arch dedicated to the emperor Hadrian, an amphitheatre and fountains. At the north end of the city is the hippodrome; a

13/02/2019

Candidate name, centre number, candidate number

race course for horses and chariots. Much of the city is remarkably well preserved.

Purpose of the field courses.

Members of our two courses (which overlap) will join

- Table top row merged and centred over 3 columns 1 mark
- Top row only shading applied 1 mark
- ARC-Subhead style applied to text in top two rows 1 mark
- ARC-Table style applied to all other rows 1 mark
- Table fits within column with no blank rows no split words 1 mark
- All internal and external gridlines visible when printed 1 mark

and preserving artefacts found on the site of the dig. Small teams will focus on different aspects of the history of Jerash. There will be opportunities to explore different ages of the occupation of the town from Bronze Age relics to more “modern” finds such as the reconstruction of a recently discovered mosaic floor.

<u>Field trip studies options</u>		
<u>Historical era</u>	<u>On site location</u>	<u>Activities</u>
The Bronze Age	Trench	Signs of human activity
The Greek era	The Hippodrome	Greek style pottery
Domestic Roman life	Mosaic	Preservation and reconstruction
The Islamic town	A mosque	Reconstruction of an ancient building

Delegates can choose the option that is most relevant to their own studies.

- Document complete / paras intact
- Columns balanced,
- No widows / orphans
- No split table
- Application of styles is consistent
- Spacing between all items is consistent 1 mark

Archaeology course delegates

Report title **Archaeology course delegates** 1 mark
 Only these fields in this order 1 mark
 Date import 1 mark
Course_code starts with letter A 1 mark
 Sorted *Course_code* ascending then *Last_name* ascending 1 mark
 Landscape, 1 page wide with data and labels fully visible 1 mark

Roll_No	First_Name	Last_Name	Gender	Course_Code	Course			
SS0254	Mohammed	Ahktar	M	A1901	Archaeology on-site 1			
SS0066	Lilly	Allan	F	A1901	Archaeology on-site 1			
SS0296	Ewan	Barrett	M	A1901	Archaeology on-site 1	Amman	07 August 2019	Ms J Gathard
SS0095	Callum	Baxter	M	A1901	Archaeology on-site 1	Amman	07 August 2019	Ms J Gathard
SS0033	John	Black	M	A1901	Archaeology on-site 1	Amman	07 August 2019	Ms J Gathard
SS0071	Alex	Fisher	M	A1901	Archaeology on-site 1	Amman	07 August 2019	Ms J Gathard
SS0102	Ethan	Grant	M	A1901	Archaeology on-site 1	Amman	07 August 2019	Ms J Gathard
SS0140	Jayden	Mellor	M	A1901	Archaeology on-site 1	Amman	07 August 2019	Ms J Gathard
SS0231	Sandra	Royle	F	A1901	Archaeology on-site 1	Amman	07 August 2019	Ms J Gathard
SS0247	Peter	Ryder	M	A1901	Archaeology on-site 1	Amman	07 August 2019	Ms J Gathard
SS0278	Leo	Spencer	M	A1901	Archaeology on-site 1	Amman	07 August 2019	Ms J Gathard
SS0087	Emma	West	F	A1901	Archaeology on-site 1	Amman	07 August 2019	Ms J Gathard
SS0259	Teremun	Atiyeh	M	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0271	Josh	Barlow	M	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0049	Kian	Black	M	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0098	Nathan	Burrows	M	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0109	Sebastian	Daniels	M	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0130	Greg	Garrido	M	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0084	Taylor	Hargreaves	M	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0256	Mesi	Kassis	F	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0026	David	Lewis	M	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer

Candidate name, centre number and Candidate number

Page 1 of 2

Roll_No	First_Name	Last_Name	Gender	Course_Code	Course	Location	Start_date	Tutor
SS0128	Steffen	Nguyen	M	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0146	Freya	Nixon	F	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0138	James	Stone	M	A1902	Archaeology on-site 2	Amman	21 August 2019	Ms N Spencer
SS0279	Josh	Dennis	M	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0118	Teodoro	Garza	M	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0132	Alex	Lord	M	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0013	Paige	Morrison	F	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0145	Mason	O'Neill	M	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0090	Brooke	O'Sullivan	F	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0089	Lara	Riley	F	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0163	Oscar	Stephens	M	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0162	Alfie	Thomas	M	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0165	Anthony	Tucker	M	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0123	Bethany	Woodward	F	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew
SS0038	Patrick	Woodward	M	A1903	Archaeology on-site 3	Amman	28 August 2019	Dr G Agnew

Total delegates 36

Course count = 36, positioned under *Last_Name* column 1 mark
 Has label to the left **Total delegates** 1 mark

Amman course update

Candidate name, centre number and candidate number

First_Name	Last_Name	Paid	Location	Weeks	Room_Type	Weekly_Cost	Price
Kian	Black	No	Amman	7	En suite	€550.00	€3,850.00
Sandra	Royle	No	Amman	7	En suite	€550.00	€3,850.00
Patrick	Woodward	No	Amman	5	En suite	€550.00	€2,750.00
Teodoro	Garza	No	Amman	5	Standard	€480.50	€2,402.50
Alex	Lord	No	Amman	5	Standard	€480.50	€2,402.50
Jayden	Mellor	No	Amman	7	Standard	€480.50	€3,363.50
Paige	Morrison	No	Amman	5	Standard	€480.50	€2,402.50
Leo	Spencer	No	Amman	7	Standard	€480.50	€3,363.50
Nathan	Burrows	No	Amman	7	Room only	€290.00	€2,030.00
Mesi	Kassis	No	Amman	7	Room only	€290.00	€2,030.00
Brooke	O'Sullivan	No	Amman	5	Room only	€290.00	€1,450.00
Lara	Riley	No	Amman	5	Room only	€290.00	€1,450.00
Bethany	Woodward	No	Amman	5	Room only	€290.00	€1,450.00

Total payments to collect €32,794.50

Candidate details top right of report	1 mark
Report title Amman course update , new field Price , label Total payments to collect to left of value	1 mark
Only these fields in this order	1 mark
<i>Price</i> correctly calculated	1 mark
<i>Location</i> is Amman and <i>Paid</i> is No	1 mark
Sorted <i>Weekly_Cost</i> descending then <i>Last_Name</i> ascending	1 mark
Calculates total price and places below <i>Price</i> column	1 mark
Page orientation Portrait, fits on 1 page, data and labels fully visible for base fields, currency symbol 2dp	1 mark

Tawara Summer School

1 Riverside Place
CAMBRIDGE
United Kingdom

Tel: 01223 882781

Email: tssenquiries@tawara.org.uk

13/02/2019

«Title» «First_Name» «Last_Name»
«Streets»
«City»
«Country»

Address fields on new lines with spaces	1 mark
Salutation field and space	1 mark
3 merge fields and space	1 mark
2 merge fields and space and punctuation	1 mark

Dear «First_Name»

International Summer School 2019

This is to confirm that you have booked on the «Course» residential course at the Summer School for 2019. The course reference is «Course_Ref». Your tutor will be «Tutor». You have already paid for the basic course, so just need to register at the Amman University reception between 9.00 and 11.00 on «Start_Date».

As you know, there is an option to join an on-site dig for one week during the course. You have asked to join that expedition.

Please be ready to pay the additional costs of «Field_Trip_Cost» when you register on arrival at the Summer School. These costs will cover transport to Jerash, accommodation and meals.

We look forward to meeting you on the course and particularly hope that you will enjoy the field trip.

Yours sincerely

Dr Agnew
International Summer School Co-ordinator

Candidate name, centre number and candidate number

Tawara Summer School

1 Riverside Place
CAMBRIDGE
United Kingdom

Tel: 01223 882781
Email: tssenquiries@tawara.org.uk

13/02/2019

«Title» «First_Name» «Last_Name»
«Street»
«City»
«Country»

Dear «First_Name»

International Summer School 2019

This is to confirm that you have booked on the «Course» residential course at the Summer School for 2019. The course reference is «Course_Ref». Your tutor will be «Tutor». You have already paid for the basic course, so just need to register at the Amman University reception between 9.00 and 11.00 on «Start_Date».

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Yours sincerely

Dr Agnew
International Summer School Co-ordinator

Candidate name, centre number and candidate number

Tawara Summer School

1 Riverside Place
CAMBRIDGE
United Kingdom
Tel: 01223 882781
Email: tsamp@tawara.org.uk

13/02/2019

Mr Hu Jihu
12 Jingyuan Street
Beijing
China

Dear Hu

International Summer School 2019

This is to confirm that you have booked on the Archaeology in Jordan residential course at the Summer School for 2019. The course reference is A1901. Your tutor will be Mr J Gathard. You have already paid for the basic course, so just need to register at the Amman University reception between 9.00 and 11.00 on 01 August 2019.

As you know, there is an option to join an on-site dig for one week during the course. You have asked to join that expedition.

Please be ready to pay the additional costs of \$115.00 when you register on arrival at the Summer School. These costs will cover transport to Jerash, accommodation and meals.

We look forward to meeting you on the course and particularly hope that you will enjoy the field trip.

Yours sincerely

Dr Agnes
International Summer School Co-ordinator

Candidate name, centre number and candidate number

Tawara Summer School

1 Riverside Place
CAMBRIDGE
United Kingdom
Tel: 01223 882781
Email: tsamp@tawara.org.uk

13/02/2019

Mr Waleed Waleed
221 King Street
Alexandria
Egypt

Dear Waleed

International Summer School 2019

This is to confirm that you have booked on the Archaeology in Jordan residential course at the Summer School for 2019. The course reference is A1901. Your tutor will be Mr J Gathard. You have already paid for the basic course, so just need to register at the Amman University reception between 9.00 and 11.00 on 01 August 2019.

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Yours sincerely

Dr Agnes
International Summer School Co-ordinator

Candidate name, centre number and candidate number

Tawara Summer School

1 Riverside Place
CAMBRIDGE
United Kingdom
Tel: 01223 882781
Email: tsamp@tawara.org.uk

13/02/2019

Ms Kiyra Emma
37 Helywood
Telford
United Kingdom

Dear Kiyra

International Summer School 2019

This is to confirm that you have booked on the Archaeology in Jordan residential course at the Summer School for 2019. The course reference is A1901. Your tutor will be Mr J Gathard. You have already paid for the basic course, so just need to register at the Amman University reception between 9.00 and 11.00 on 01 August 2019.

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Yours sincerely

Dr Agnes
International Summer School Co-ordinator

Candidate name, centre number and candidate number


Correct 3 letters printed 1 mark



Programme for arrival of delegates

Meeting leader: Candidate name,
centre number and candidate
number

12/02/2019 Candidate name, centre number and candidate number 1




Delegate arrival details

- Collect lists from administration
- Review driver schedules
- Check contingency plans

12/02/2019 Candidate name, centre number and candidate number 2

Slide 1 – centred title and subtitle layout, name entered after Meeting leader: 1 mark
Delegate arrival details slide moved to become slide 2 1 mark
 Driver names demoted to second level 1 mark


Master slide items
 Master slide used/features applied to all slides 1 mark
 Candidate details on all slides 1 mark



Arrival of delegates

- Meet at airport
- Drivers
 - Mohammed Arif (Principal driver)
 - Benjamin Paul (Relief driver)

12/02/2019 Candidate name, centre number and candidate number 3




Meeting flights

- Check delegate flight times
- Arrive airport 30 minutes before arrival
- Delegate name greeting cards
- Welcome in arrivals hall

12/02/2019 Candidate name, centre number and candidate number 4


Driver names demoted to second level 1 mark



In case of delayed flights

- Contact programme organiser
- Contact 1 Miriam tel 987345
- Contact 2 Jasmine tel 987436

12/02/2019 Candidate name, centre number and candidate number 5



Pickup information

- Collect delegates
- Deliver to reception at University hall
- Assist check in
- Escort to rooms and settle in

12/02/2019 Candidate name, centre number and candidate number 6



Arrival of delegates

- Meet at airport
- Drivers
 - Mohammed Arif (Principal driver)
 - Benjamin Paul (Relief driver)



Print one full size slide (*Arrival of delegates*) and whole presentation six slides to page layout. 1 mark

13/02/2019

Candidate name, centre number and candidate number

3

M219 Evidence
Evidence 1:

 A190XINFO.docx 08/11/2017 12:23 Microsoft Word Document 70 KB
 M219 Evidence9999.rtf 07/19

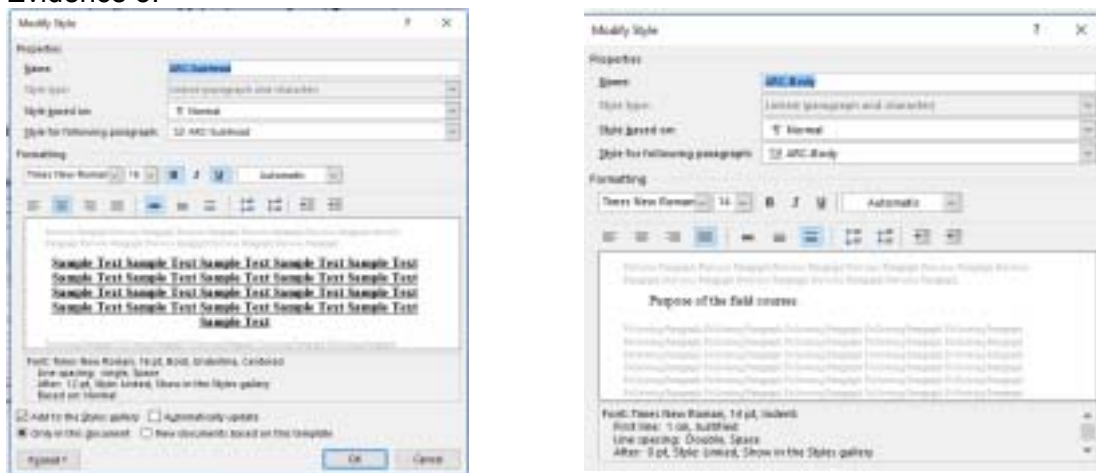
File saved in format of software 1 mark

Evidence 2:



Page size A4, landscape 1 mark
 Margins all set 2 cms 1 mark

Evidence 3:



Evidence that only ARC-Subhead and ARC-Body styles edited	1 mark
ARC-Subhead style edited to be centred, bold applied with italics removed	1 mark
ARC-Body style edited to be serif, fully justified, not bold	1 mark
ARC-Body style first line indent 1 cm (0.39”), double line space	1 mark

Evidence 4:
Four from:

Advantages of relational

- Data that would be repeated in a flat file database would only be entered/edited/deleted once
- Simpler to create reports with data from all three tables because data are linked
- Data stored once so cuts down inconsistency of repeated data entry
- Less storage space required for data files

Disadvantages of relational

- Harder/complex to set up a relational database
- More technical expertise to set up

Max 3 for only advantages or disadvantages
 Allow 1 mark for reasoned conclusion

Max 4 marks

Evidence 5:

M219STUDENTS	
Field Name	Data Type
Roll_No	Short Text
First_Name	Short Text
Last_Name	Short Text
Gender	Short Text
Acc_Code	Short Text
Course_Code	Short Text
Paid	Yes/No

Correct field types imported 1 mark
 Roll_No set as primary key 1 mark

Evidence 6:

Would this work?	Answer	If no, explain why?
Example A	No	Formatting <u>rather than validation</u> , should have been required field
Example B	Yes	
Example C	No	Not limited to list
Example D	No	An auto filter on existing data, not validation of new data

4 marks for correct answers 4 marks
 'No' responses must have explanations for each mark

Evidence 7:

M219STUDENTS		M219COURSES	
Field Name		Data Type	
Course		Short Text	
Course_Ref		Short Text	
Location		Short Text	
Start_date		Date/Time	
Weeks		Number	
Tutor		Short Text	

Correct field types imported 1 mark
 Course_Ref set as primary key 1 mark

Evidence 8:

Tawara Summer Schools

Roll Number: SS0296 Enter the first name

First Name: Ewan

Last Name: Barrett

Gender: M Enter the code

Accommodation: UJA3 Enter the first name

Course: A1901

Paid: Yes No

Input form – all fields from students table, displays one record only 1 mark
 Input form design features – up to 4 marks for appropriate features noted or seen. 4 marks

- e.g. a meaningful title
- Appropriate field width spacing
- Clear text for field descriptions
- Drop down list
- User notes
- Navigation buttons

Form used to add new record – 100% accurate 1 mark

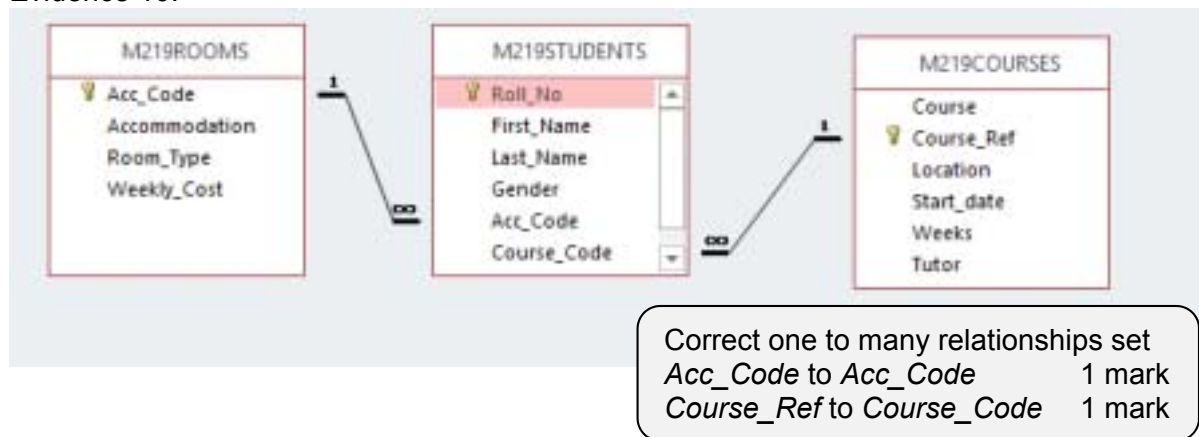
Listed features used on the form to make it user-friendly

Evidence 9:

M219COURSES		M219ROOMS	
Field Name		Data Type	
Acc_Code		Text	
Accommodation		Text	
Room_Type		Text	
Weekly_Cost		Currency	

Correct field types imported 1 mark
 Acc_Code set as primary key 1 mark

Evidence 10:



Evidence 11:

	total delegates	=Count(*)		
--	-----------------	-----------	--	--

Calculates number of delegates 1 mark

Evidence 12:

```
Update
{ DATE \@ "dddd, MMMM dd, yyyy" \* MERGEFORMAT }
```

Evidence of date field used 1 mark

Evidence 13:

Selection method used to show selection delegated that match the criteria of Yes for field trip and No for paid.

Evidence 14:

Evidence of additional features which may not appear on the master slides may be noted here e.g. animations, templates, transitions.