MARK SCHEME for the May/June 2010 question paper

for the guidance of teachers

9713 APPLIED ICT

9713/02   Paper 2 (Practical Test A), maximum raw mark 120

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 must be read in conjunction with the question papers and the report on the examination.

- CIE will not enter into discussions or correspondence in connection with these mark schemes.

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UNIVERSITY of CAMBRIDGE
International Examinations

No marks to be awarded for any printout not containing the candidate name, candidate number and Centre number

Step 2
Candidate name, Centre number and candidate number

Cars	
Field Name	**Data Type**
CarID	Number
Make	Text
Model	Text
Colour	Text
PurchasePrice	Currency
SalePrice	Currency
Year	Number
Extras	Text
Sold	Yes/No
DateSold	Date/Time
CustID	Text

Table created
Appropriate table name   1 mark
 Accept JXCars ?
Field names meaningful & short   2 mark
 (Field names may vary)
Field types (1 mark per field)   9 marks
If currency shown as numeric with evidence of
currency in general tab then award
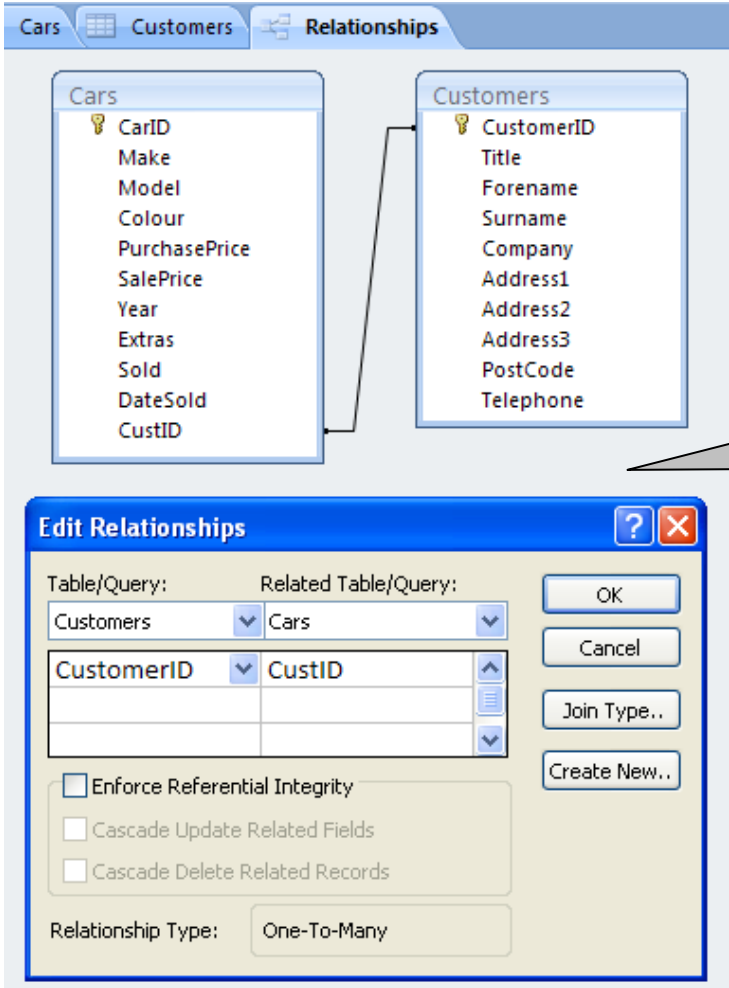Primary key correct   1 mark

Candidate name, Centre number and candidate number

Cars	Customers	
Field Name	**Data Type**	
CustomerID	Text	
Title	Text	
Forename	Text	
Surname	Text	
Company	Text	
Address1	Text	
Address2	Text	
Address3	Text	
PostCode	Text	
Telephone	Text	

Table created
Appropriate table and field names   1 mark
Field types all correct   1 mark
Primary key correct   1 mark

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Candidate name, Centre number and candidate number

Cars | Customers | Relationships

Cars
- CarID
- Make
- Model
- Colour
- PurchasePrice
- SalePrice
- Year
- Extras
- Sold
- DateSold
- CustID

Customers
- CustomerID
- Title
- Forename
- Surname
- Company
- Address1
- Address2
- Address3
- PostCode
- Telephone

Customers.CustomerID	1 mark
Cars.CustID	1 mark
One-to-many	1 mark

Edit Relationships

Table/Query: Customers   Related Table/Query: Cars

CustomerID   CustID

☐ Enforce Referential Integrity
☐ Cascade Update Related Fields
☐ Cascade Delete Related Records

Relationship Type: One-To-Many

OK
Cancel
Join Type..
Create New..

Step 3

Cars.PurchasePrice

Colour	Text
PurchasePrice	Currency
SalePrice	Currency
Year	Number
Extras	Text
Sold	Yes/No
DateSold	Date/Time
CustID	Text

General | Lookup

Format	
Decimal Places	Auto
Input Mask	
Caption	
Default Value	
Validation Rule	>=500
Validation Text	We only buy cars for £500 or more

Rule correct   1 mark
Appropriate validation text   1 mark

Cars.SalePrice

PurchasePrice	Currency
SalePrice	Currency
Year	Number
Extras	Text
Sold	Yes/No
DateSold	Date/Time
CustID	Text

General | Lookup

Format	
Decimal Places	Auto
Input Mask	
Caption	
Default Value	
Validation Rule	>=1000
Validation Text	We only sell cars for £1000 or more

Rule correct   1 mark
Appropriate validation text   1 mark

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Cars.Year

	SalePrice	Currency
	Year	Number
	Extras	Text
	Sold	Yes/No
	DateSold	Date/Time
	CustID	Text

General | Lookup

Field Size	Long Integer
Format	
Decimal Places	Auto
Input Mask	
Caption	
Default Value	
Validation Rule	>1990 And <2011
Validation Text	We only sell cars made after 1990

Greater than 1990   1 mark
Appropriate validation text   1 mark

Cars.CustID

	DateSold	Date/Time
	CustID	Text

General | Lookup

Field Size	255
Format	
Input Mask	L0000
Caption	
Default Value	
Validation Rule	Like "P????" Or Like "B????"
Validation Text	Enter P or B followed by 4 digits.

1 character   1 mark
4 numbers   1 mark
Allow these 2 marks if customer table shown like this and car table not shown

Customers.CustomerID

Field Name	Data Type
CustomerID	Text
Title	Text
Forename	Text
Surname	Text
Company	Text
Address1	Text
Address2	Text
Address3	Text
PostCode	Text
Telephone	Text

General | Lookup

Field Size	255
Format	
Input Mask	L0000
Caption	
Default Value	
Validation Rule	Like "P????" Or Like "B????"
Validation Text	Enter P or B followed by 4 digits

> Same input mask as cars table   1 mark

Customers.Address3

Address3	Text
PostCode	Text
Telephone	Text

General | Lookup

Field Size	255
Format	
Input Mask	
Caption	
Default Value	
Validation Rule	'Essex' Or 'Suffolk' Or 'Cambridgeshire'

> Essex   1 mark
> OR Suffolk   1 mark
> OR Cambridgeshire   1 mark

Customers.Telephone

Telephone	Text

General | Lookup

Field Size	255
Format	
Input Mask	00000\ 000000

> Input mask
> 5 numbers   1 mark
> Space (may be shown as \)   1 mark
> 6 numbers   1 mark

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Step 5
Candidate name, Centre number and candidate number

Cars sold to business customers

Make	PurchasePrice	SalePrice	DateSold	Company	Profit
Citroen	£3,550.00	£4,405.00	13/01/2009	RS Electrical	£855.00
Vauxhall	£5,995.00	£7,095.00	27/01/2009	Clacton Mobility Company	£1,100.00
Porsche	£39,995.00	£44,495.00	08/02/2009		£4,500.00
BMW	£15,995.00	£18,095.00	16/0		
Alfa Romeo	£10,995.00	£12,595.00	28/		
Vauxhall	£6,100.00	£7,215.00	12/		
Ford	£1,400.00	£2,045.00	14/		
Skoda	£5,995.00	£7,095.00	19/		
Ford	£2,995.00	£3,795.00	25/		
Alfa Romeo	£12,495.00	£14,245.00	26/05/2009	AT Logistics	£1,750.00
Audi	£15,495.00	£17,545.00	28/05/2009	SF Martial Arts	£2,050.00
Ford	£2,695.00	£3,465.00	02/07/2009	Dynamite Fireworks	£770.00
Mercedes	£35,995.00	£40,095.00	13/07/2009	RS Electrical	£4,100.00
Renault	£3,995.00	£4,895.00	04/08/2009	Suffolk Steel	£900.00
Ford	£1,995.00	£2,695.00	26/08/2009	Steel Stockholders	£700.00
Ford	£2,995.00	£3,795.00	28/08/2009	JC Building Supplies	£800.00
Vauxhall	£3,995.00	£4,895.00	01/09/2009	Niceday Nursery	£900.00
Alfa Romeo	£7,995.00	£9,295.00	21/09/2009	SF Martial Arts	£1,300.00
Vauxhall	£3,500.00	£4,355.00	09/10/2009	P Dane Plumbing	£855.00
Ford	£6,250.00	£7,375.00	10/10/2009	Indian Curry Cuisine	£1,125.00
Ford	£2,995.00	£3,795.00	30/10/2009	EFL Schools Ltd	£800.00
Toyota	£13,995.00	£15,895.00	18/11/2009	Tilly's Pantry	£1,900.00
					£31,765.00

Callout (fields):

Name and numbers in header		1 mark
Title 100% correct		1 mark
Fields:	Make	1 mark
	PurchasePrice	1 mark
	SalePrice	1 mark
	DateSold	1 mark
	Company	1 mark

Each mark awarded only if label and data fully visible
Subtract marks for additional fields (NOT Profit)

£67,700 f/t if no business search

Callout (search/profit/total):

Search	Sold	1 mark
	AND business customers	1 mark
Profit	New field	1 mark
	Correct calculation	2 marks
	Sterling & 2dp	1 mark
Total	Correct calculation	1 mark
	Sterling, 2dp & position	1 mark
Must be below profit column		
Sorted	Ascending on DateSold	1 mark
PurchPr	Sterling & 2dp	1 mark
SalesPrice	Sterling & 2dp	1 mark

Step 7
**Candidate name, Centre number and candidate number**

Average sale price of luxury cars

Make	Avg Of SalePrice
Audi	£17,545.00
Jaguar	£17,270.00
Lotus	£16,455.00
Mercedes	£18,745.00
Porsche	£48,895.00
Range Rover	£17,545.00
Toyota	£17,728.33
TVR	£24,700.00

Data	Correct averages on make	2 marks
	Average > 15000	1 mark
	Ascending order of make	1 mark
Title	100% correct	1 mark
Header	Name and numbers	1 mark

Step 8
Candidate name, Centre number and candidate number

The average sale price of luxury makes of car
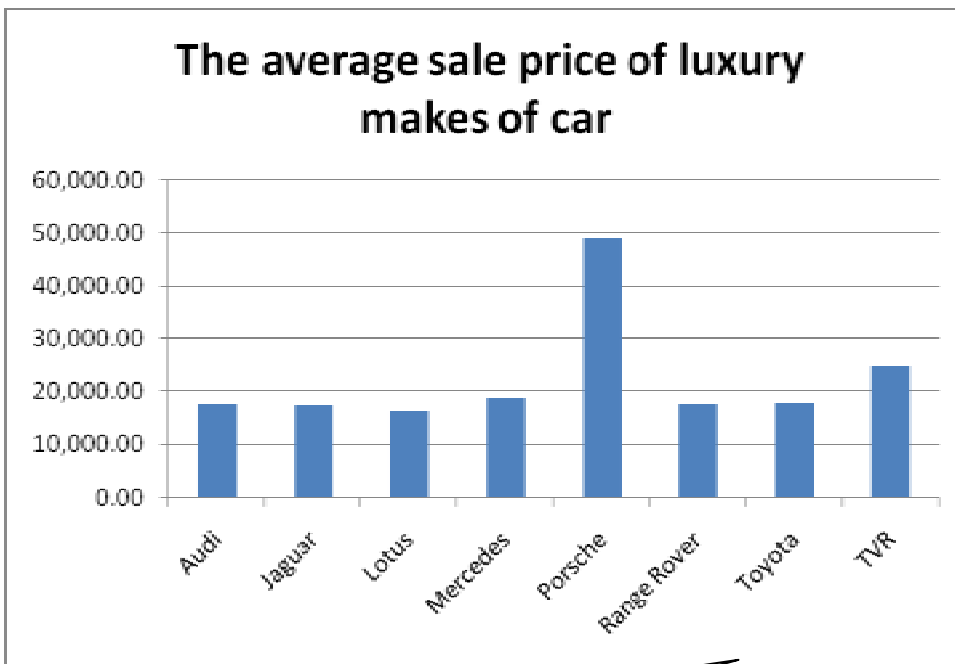
Title	Appropriate & meaningful	1 mark
Luxury required do not allow AVG		
Header	Name and numbers	1 mark
Chart type	Appropriate	2 marks
Axis	Labels/scale fully visible	1 mark
Values	Correct	1 mark
Include follow through of searching		

Step 9
Candidate name, Centre number and candidate number

Average profit Query

SaleType	Avg Of Profit
B	£1,443.86
P	£1,437.40
Key	

Business	Correct calculation	2 marks
-1 if incorrect formatting		
Personal	Correct calculation	2 marks
-1 if incorrect formatting		
Header	Name and numbers	1 mark
Labels	Showing business/personal	1 mark
May include a key		

Please note b is the code for business customers and p is the code for personal customers.

Step 21

Chosen supplier

PriviPost

Supplier	Name copied or referenced	1 mark
Selection	PriviPost & total correct	4 marks

SUPPLIER TABLE

Supplier	Fixed fee	Number of properties		
		0	2000	20000
AB Leaflets	£25.00	0.03	0.02	0.012
PriviPost	£150.00	0.03	0.02	0.006
Royal Mail	£0.00	0.03	0.022	0.015
Tendring Leaflets	£50.00	0.03	0.03	0.015
X Mail	£1,000.00	0.03	0.005	0.002

AREA TABLE

Area	Properties	Fixed fee	Rate	Delivery	Total cost
Cambridge	27000	£150.00	0.006	£162.00	£312.00
Chelmsford	41000	£150.00	0.006	£246.00	£396.00
Clacton	13200	£150.00	0.02	£264.00	£414.00
Colchester	39000	£150.00	0.006	£234.00	£384.00
Hadleigh	1600	£150.00	0.03	£48.00	£198.00
Ipswich	29200	£150.00	0.006	£175.20	£325.20
	151000				£2,029.20

Candidate name, Centre number and candidate number

In footer	1 mark

Step 16

Chosen supplier

=A8

SUPPLIER TABLE

Supplier	Fixed fee	Number		
		0		**2000**
AB Leaflets	25	0.03		0.02
PriviPost	150	0.03		0.02
Royal Mail	0	0.03		0.022
Tendring Leaflets	50	0.03		0.03
X Mail	1000	0.0		0.005

Fixed Fee
LOOKUP function used	1 mark
Correct absolute reference	1 mark
Correct absolute range	1 mark
Correct return column	1 mark

Rate
Nested if	1 mark
Correct condition	1 mark
LOOKUP function used	1 mark
Correct absolute reference	1 mark
Correct absolute range	1 mark
Correct return column/range	1 mark
Correct condition	1 mark
LOOKUP function used	1 mark
Correct absolute reference	1 mark
Correct absolute range	1 mark
Correct return column/range	1 mark
Else	
LOOKUP function used	1 mark
Correct absolute reference	1 mark
Correct absolute range	1 mark
Correct return column/range	1 mark

AREA TABLE

Area	Properties	Fixed fee	Rate
Cambridge	27000	=LOOKUP($A$2,$A$7:$A$11,$B$7:$B$11)	=IF(B15>$E$6,LOOKUP($A$2,$A$7:$A$11,$E$7:$E$11),IF(B15>$D$6,LOOKUP($A$2,$A$7:$A$11,$D$7:$D$11),LOOKUP($A$2,$A$7:$A$11,$C$7:$C$11)))
Chelmsford	41000	=LOOKUP($A$2,$A$7:$A$11,$B$7:$B$11)	=IF(B16>$E$6,LOOKUP($A$2,$A$7:$A$11,$E$7:$E$11),IF(B16>$D$6,LOOKUP($A$2,$A$7:$A$11,$D$7:$D$11),LOOKUP($A$2,$A$7:$A$11,$C$7:$C$11)))
Clacton	13200	=LOOKUP($A$2,$A$7:$A$11,$B$7:$B$11)	=IF(B17>$E$6,LOOKUP($A$2,$A$7:$A$11,$E$7:$E$11),IF(B17>$D$6,LOOKUP($A$2,$A$7:$A$11,$D$7:$D$11),LOOKUP($A$2,$A$7:$A$11,$C$7:$C$11)))
Colchester	39000	=LOOKUP($A$2,$A$7:$A$11,$B$7:$B$11)	=IF(B18>$E$6,LOOKUP($A$2,$A$7:$A$11,$E$7:$E$11),IF(B18>$D$6,LOOKUP($A$2,$A$7:$A$11,$D$7:$D$11),LOOKUP($A$2,$A$7:$A$11,$C$7:$C$11)))
Hadleigh	1600	=LOOKUP($A$2,$A$7:$A$11,$B$7:$B$11)	=IF(B19>$E$6,LOOKUP($A$2,$A$7:$A$11,$E$7:$E$11),IF(B19>$D$6,LOOKUP($A$2,$A$7:$A$11,$D$7:$D$11),LOOKUP($A$2,$A$7:$A$11,$C$7:$C$11)))
Ipswich	29200	=LOOKUP($A$2,$A$7:$A$11,$B$7:$B$11)	=IF(B20>$E$6,LOOKUP($A$2,$A$7:$A$11,$E$7:$E$11),IF(B20>$D$6,LOOKUP($A$2,$A$7:$A$11,$D$7:$D$11),LOOKUP($A$2,$A$7:$A$11,$C$7:$C$11)))
	=SUM(B15:B20)		

Total number of properties
Correct SUM	1 mark

20000

0.012

0.006

0.015

0.015

0.002

Delivery
Properties * Rate   1 mark

Total Cost
Fixed Fee + Rate   1 mark

Delivery   **Total cost**

=B15*D15   =C15+E15

=B16*D16   =C16+E16

=B17*D17   =C17+E17

=B18*D18   =C18+E18

=B19*D19   =C19+E19

=B20*D20   =C20+E20

=SUM(F15:F20)

Total Cost for Region
Correct SUM   1 mark

Replication
All 4 correct   1 mark

Candidate name, centre number and candidate number

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Content (K & U) – Maximum 12 marks

<u>What is it</u>:

'Document for publishing'
- **Word processed**
- **Desktop Published**
- **Portable document format** **[Max 3]**

'Accurate'
- **Check what has been intended to be entered is entered**
- **Check it matches original brief/target audience**

[Max 1]

'Error free'
- **Check that data contains no mistakes** **[1]**

<u>Accuracy can be achieved by</u>:

- **Verification**
  - o **using double entry**
  - o **visual verification (not proof reading)**

[Max 3]

<u>Error free can be achieved by</u>:

- **Automated**
  - o **Spell check**
    - ▪ **Each word is spelt as in local language dictionary**
  - o **Grammar check**
    - ▪ **Syntax/structure of language/ensuring correct sentence construction**
    - ▪ **Correct spelling for the context used/accept examples like: there or their**

[Max 5]

- **Manual**
  - o **Copy-editing**
    - ▪ **Does it make sense**
    - ▪ **Ensures it matches pre-defined/corporate style**
  - o **Proof reading**
    - ▪ **Does it make sense (if not given above)**
    - ▪ **Does it match the original brief/intended audience**

[Max 5]

<u>Other tools used</u>:

- **Breaks (Page/column/section) to control**
- **Widows/orphan control**
- **Split lists**
- **Split tables**
- **Split rows within tables**
- **Use of templates**
- **Application of styles/consistent font/line/paragraph spacing**
- **Dictionary/Thesaurus to locate alternative words**
  Allow track changes and auto-correction if used appropriately

[Max 3]

[Maximum 12]

Practical skills – Maximum 8 marks

These practical skills will only be awarded marks if there are more than 100 words present.

Word processed document with:
- **consistent line spacing**
- **appropriate margins**
  include hanging/indented paragraphs
- **suitable font styles**
- **suitable font sizes (>10 and <15)**
- **correct spelling, punctuation and grammar**
  penalise for wrong target audience
- **<400 words**
- **single page**
- **appropriate title** Including style/size – must mention 'accurate' and 'error free'.

Candidate name, Centre number and candidate number