MARK SCHEME for the May/June 2013 series

9713 APPLIED INFORMATION & COMMUNICATION TECHNOLOGY

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

Cambridge will not enter into discussions about these mark schemes.

Cambridge is publishing the mark schemes for the May/June 2013 series for most IGCSE, GCE Advanced Level and Advanced Subsidiary Level components and some Ordinary Level components.
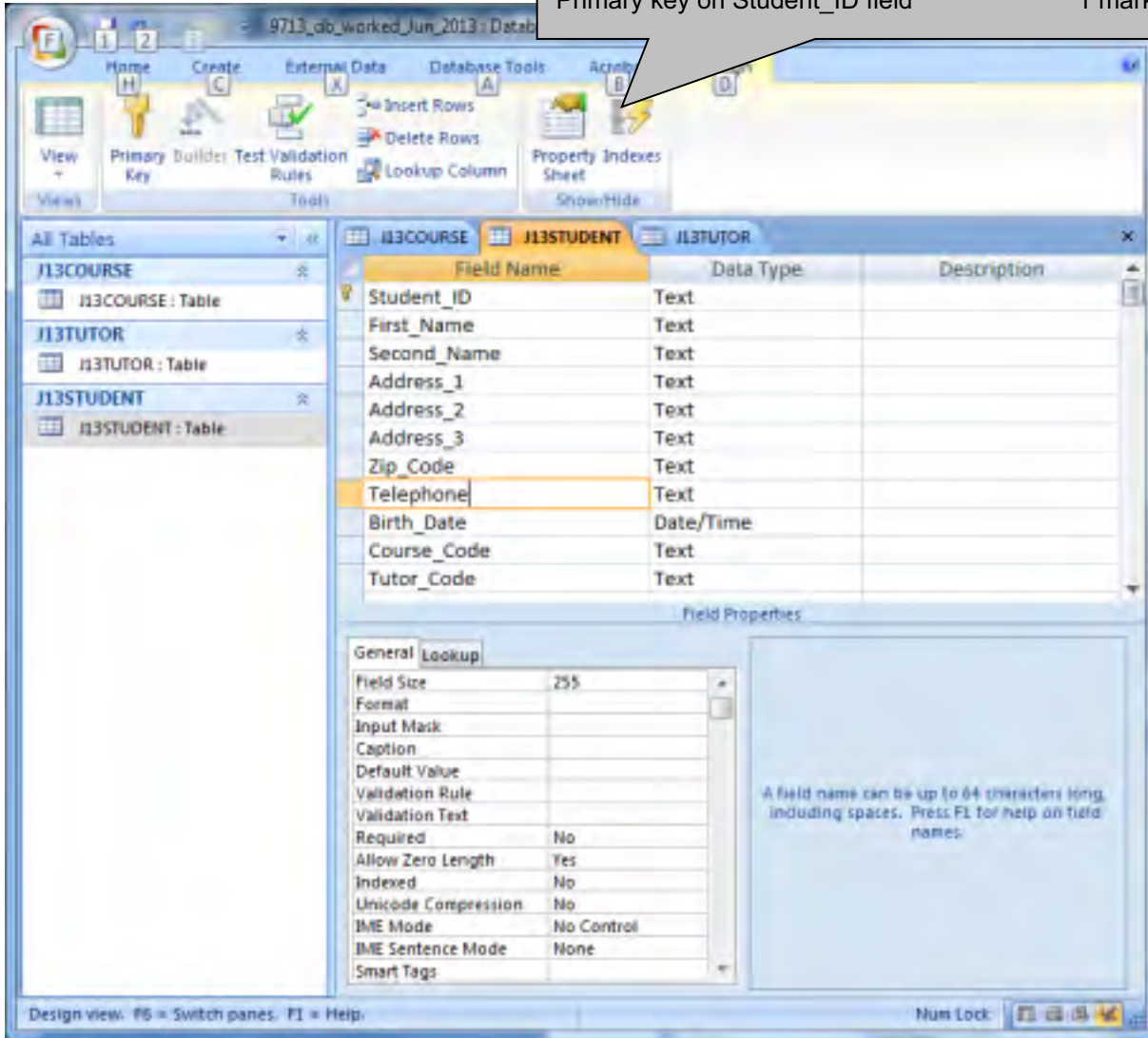
9713 – June 2013
AS Level – Paper 2 – Practical Test

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

STUDENT Table created
Appropriate table name   1 mark
Appropriate field name – Second name   1 mark
Appropriate field names – 3 address fields   3 marks
Field types (1 mark per field)   11 marks
Primary key on Student_ID field   1 mark

Field Name	Data Type
Student_ID	Text
First_Name	Text
Second_Name	Text
Address_1	Text
Address_2	Text
Address_3	Text
Zip_Code	Text
Telephone	Text
Birth_Date	Date/Time
Course_Code	Text
Tutor_Code	Text

COURSE Table created
Appropriate table name   1 mark
Appropriate field names   1 mark
Field types (1 mark per field)   5 marks
Key on Code field   1 mark
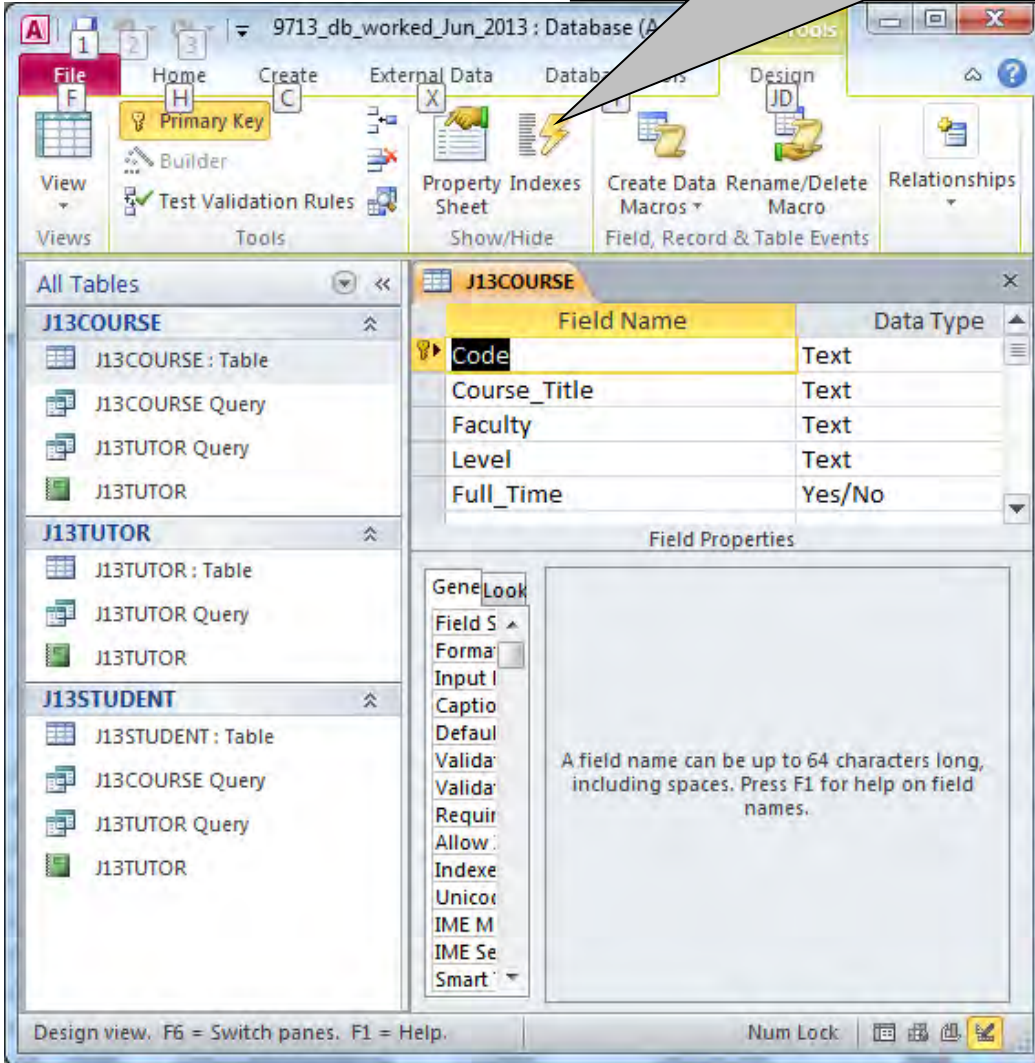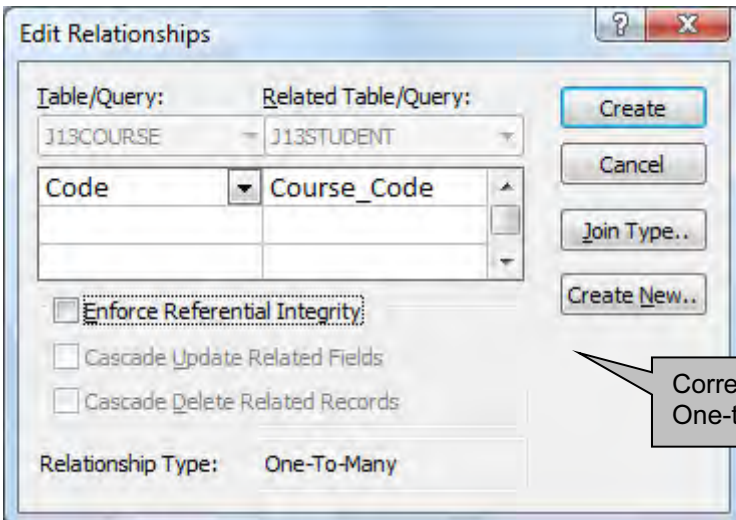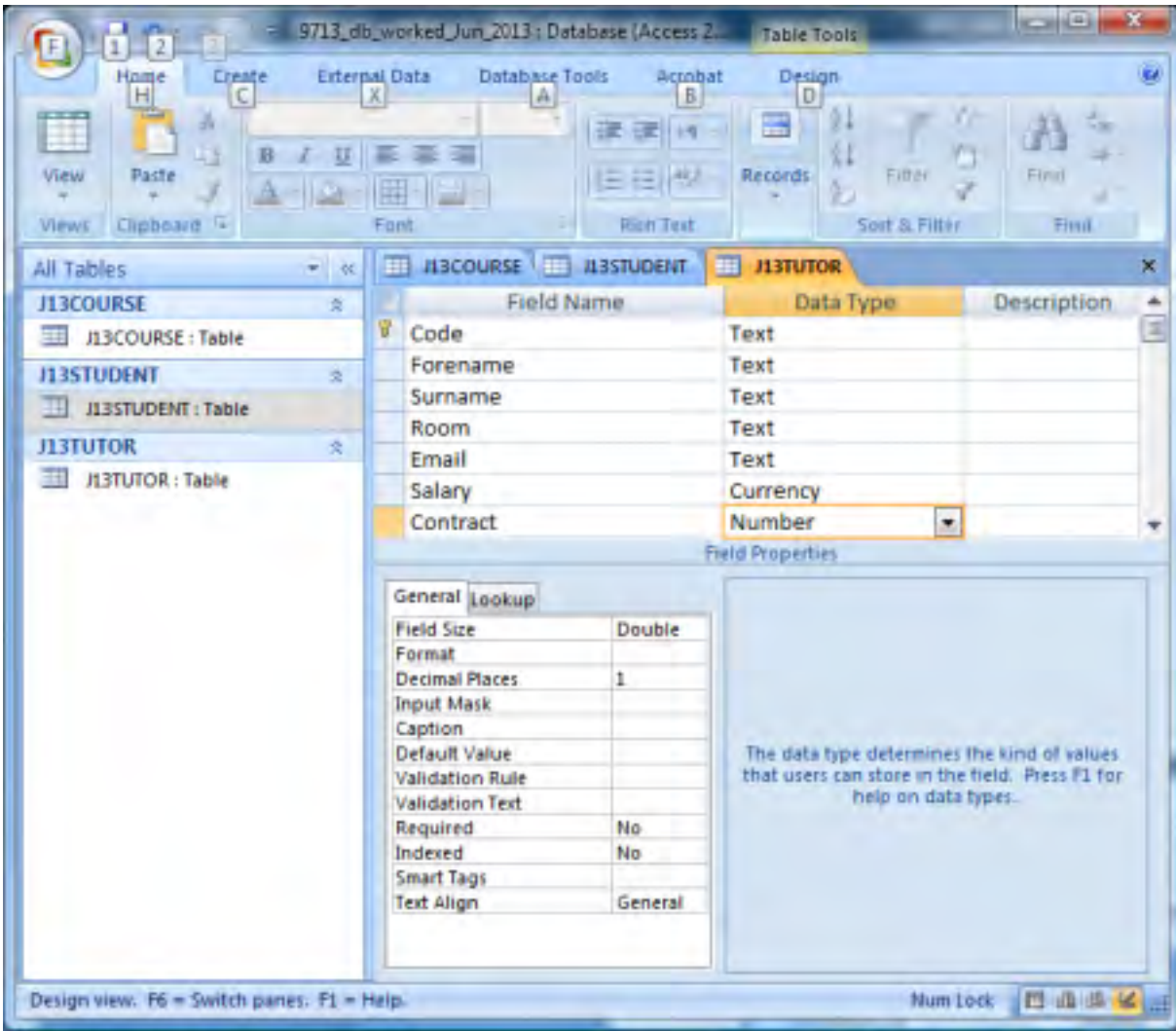
TUTOR Table created

Appropriate table name	1 mark
Appropriate field name – First name	1 mark
Appropriate field name – Second name	1 mark
Field types (1 mark per field)	7 marks
Contract field set to 1dp	1 mark
Key on Code field	1 mark

J13TUTOR

Field Name	Data Type	Description
Code	Text	
Forename	Text	
Surname	Text	
Room	Text	
Email	Text	
Salary	Currency	
Contract	Number	

Field Properties

General | Lookup

Format	Currency
Decimal Places	2
Input Mask	
Caption	
Default Value	
Validation Rule	
Validation Text	
Required	No
Indexed	No
Smart Tags	
Text Align	General

The error message that appears when you enter a value prohibited by the validation rule. Press F1 for help on validation text.

Design view. F6 = Switch panes. F1 = Help. Num Lock

Correct fields — 1 mark
One-to-many — 1 mark

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Edit Relationships

Table/Query: J13TUTOR
Related Table/Query: J13STUDENT

Code	Tutor_Code

OK
Cancel
Join Type..
Create New..

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

Relationship Type: One-To-Many

Correct fields	2 marks
One-to-many	1 mark

J13COURSE   J13STUDENT   **J13TUTOR**   Relationships

Field Name	Data Type	Desc
🔑 Code	Text	
Forename	Text	
Surname	Text	
Room	Text	
Email	Text	
Salary	Currency	
Contract	Number	

Correct field	1 mark
>0	1 mark
AND	1 mark
<=1	1 mark
Appropriate text	1 mark
Including parameters	1 mark

Field Properties

General | Lookup

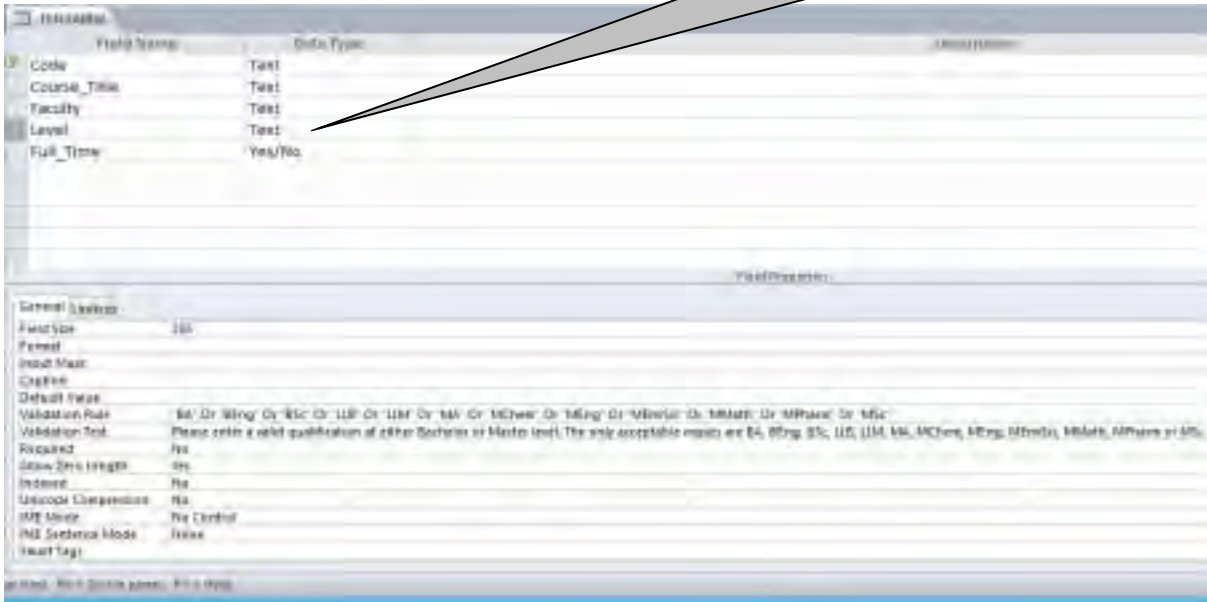| Field Size	Double
Format	
Decimal Places	1
Input Mask	
Caption	
Default Value	
Validation Rule	>0 And <=1
Validation Text	You may only enter a value greater than 0 or less than or equal to 1 for this field
Required	No
Indexed	No
Smart Tags	
Text Align	General

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Acceptable data for Course.Level field

BA
BEng
BSc
LLB
LLM
MA
MChem
MEng
MEnvSci
MMath
MPharm
MSc

> Evidence of all 12 data sets   3 marks
> Alphabetical sort   1 mark

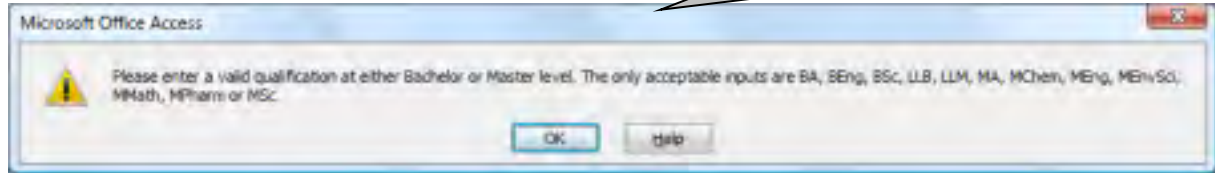## Rule

> Correct field   1 mark
> All 12 correct entries in rule   1 mark
> OR   1 mark

Text

> Appropriate text   1 mark
> Including parameters   1 mark

Microsoft Office Access

Please enter a valid qualification at either Bachelor or Master level. The only acceptable inputs are BA, BEng, BSc, LLB, LLM, MA, MChem, MEng, MEnvSci, MMath, MPharm or MSc.

OK   Help

Testing the data entered is valid

8 x4 table with gridlines	1 mark
Text 100% accurate	1 mark
Correct cells merged	1 mark

Orientation - Landscape	1 mark
Heading 100% accurate	1 mark
32 point	1 mark
Bold	1 mark
Centre aligned	1 mark
Sans-serif	1 mark

Fieldname	Tutor.Contract		
Test type	*Range check*		
Data chosen	**Type of data**	**Expected outcome**	**Actual outcome**
0.2	Normal	Accepted	0.2 stored/accepted
0.5			0.5 stored/accepted
0	Abnormal	Error message	Microsoft Office Access — You may only enter a value greater than 0 o... [OK] [Help]
1.1			Microsoft Office Access — You may only enter a value greater than 0 o... [OK] [Help]
1	Extreme	Accepted	1 stored/accepted

Normal data	1 mark
2 Correct examples	1 mark
Expected to work	1 mark
Works	1 mark
Abnormal data	1 mark
2 Correct examples	1 mark
Expected to be rejected	1 mark
Rejected	1 mark
Extreme data	1 mark
Correct example	1 mark
Expected to work	1 mark
Works	1 mark

Footer	
Name & numbers left align	1 mark
File name & path right align	1 mark

Name, centre and candidate number

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16 x4 table with gridlines — 1 mark
Text 100% accurate — 1 mark
Correct cells merged — 1 mark
Correct cells merged — 1 mark

Fieldname	Course.Level		
Test type	*Lookup check*		
Data chosen	**Type of data**	**Expected outcome**	**Actual outcome**
BA			BA stored/accepted
BEng			BEng stored/accepted
BSc			BSc stored/accepted
LLB			LLB stored/accepted
LLM			LLM stored/accepted
MA	**Normal**	**Accepted**	MA stored/accepted
MChem			MChem stored/accepted
MEng			MEng stored/accepted
MEnvSci			MEnvSci stored/accepted
MMath			MMath stored/accepted
MPharm			MPharm stored/accepted
MSc			MSc stored/accepted
Trash	**Abnormal**	**Error message**	

All 12 in Normal data — 1 mark
One item of Abnormal — 1 mark

No table split over page — 1 mark

Name, centre and candidate number

Header:
  Appropriate title & candidate details   1 mark
  Tutor & student details differentiated   1 mark
Correct fields:
  Tutor names, Room, Student names
  Tel, Course title   1 mark

Room closures - rooms 2 to 10

Report by A Candidate XX999 / 9999

Tutor details		Student details			
Room	Surname	Forename	Second_Name	First_Name	Telephone	Course_Title

10

	Yu	Xiaodong				
			Bennett	Laura	0545231544	International Banking and Financial Services
			Browning	Karla	05551183298	French and History of Art
			Di Vizio	Shruti	05551136238	Medieval Studies
			Gupta	Kratika	05551123489	English Literature
			Hafez	Taran	05551145046	Archaeology & Classical Studies
			Lopez	Duarte	05551239674	Artificial Intelligence and Cybernetics
			Lopez	Pedro	05551127700	Archaeology & Classical Studies
			Oldham	Felicity	05551189723	Classical Tradition
			Platt	Karthilene	0555112898	Medieval Archaeology
			Schneider	Olga	05551123489	History of Art
			Schuhmacher	Peter	05551198787	English Language
			Taylor	Anna	05551127612	International Business
			Tello	Christal	0555185772	Art
			Tobin	David	05551232201	English Literature and Italian
			Turner	Steven	05551142749	Real Estate Finance
			Wang	Lu	05551192503	Management with Information Technology
			Wexler	Traugott	05551128529	Agriculture

2

	Brown	Laura				
			Bayer	Evert	05551122955	Graphic Communication
			Bravo	Pablo	0545231544	Ancient History and History
			Gad	Siddharth	05551123489	Archaeology & Classical Studies
			Garrido	Pedro	0545231544	Philosophy
			Kacaratchi	Summer	05551123489	Food marketing & Business Economics
			Lu	Tanjung	05551176876	International Financial Regulation

Search:
  Rooms 2,4,10   2 marks
Grouping:
  Room   1 mark
  Then Tutor   1 mark
Sorting:
  Ascending Surname within group   1 mark
  Printed single page wide   1 mark

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Name, centre and candidate number   9713_s13_ms_2

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Room	Surname	Forename	Second_Name	First_Name	Telephone	Course_Title
			McGrew	Emie	05551148012	Philosophy and International Relations
			Valles	Miguel	05551243572	Philosophy and Politics
			Weiss	Nina	05551242326	Philosophy and German
	Tyrell	Paul				
			Dev	Teng	05551299987	Business and Management
			Kaznica	Steve	0545231544	German Studies
4						
	Gerard	David				
			Jolley	Sharon	0555122961	Development Finance
			Kaspirov	Ina	05551277696	Military History and Strategic Studies
			Lopez	Jorge	05551297291	Digital Signal Processing and Communications
	Norfolk	Charlotte				
			Bansal	Mohamed	05551107473	Quantity Surveying
			Black	Carla	05551131159	French Studies and Politics
			Bland	Susan	0555126872	Robotics
			Brown	Luigi	05551114477	History
			Damji	Peter	05551100788	French Studies and English Language
			Evans	Mike	05551161089	Modern History
			Francisco Javier	Adone	05551215137	French and History of Art
			Georgiardou	Nikos	0555123823	Quantity Surveying
			Ghandi	Tomas	05551118189	Financial Research
			Joshi	Rish	0545231544	Business Economics
			Lugo	Jorge	05551153781	Philosophy and English Literature
			Nichols	Amy	0555123489	Agriculture
			Nicolaides	Nikos	0555127210	Modern and Contemporary Writing
			Reeves	Nicola	05551275156	Statistics / Applied Statistics
			Schulze	Carmen	05551168431	English Language
			Schulze	Peter	05551215594	English Language
			Strauss	Dietmar	0555123489	French and Management Studies
			Viren	Lasse	0555127524	Archaeology & Classical Studies

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Name, centre and candidate number

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Room	Surname	Forename	Second_Name	First_Name	Telephone	Course_Title
			Wainwright	John	05551231572	Applied Informatics - Biodiversity Informatics
			Weissmuller	Thora	05551224490	History
			Williams	Dewy	0555127960	French Studies and Politics

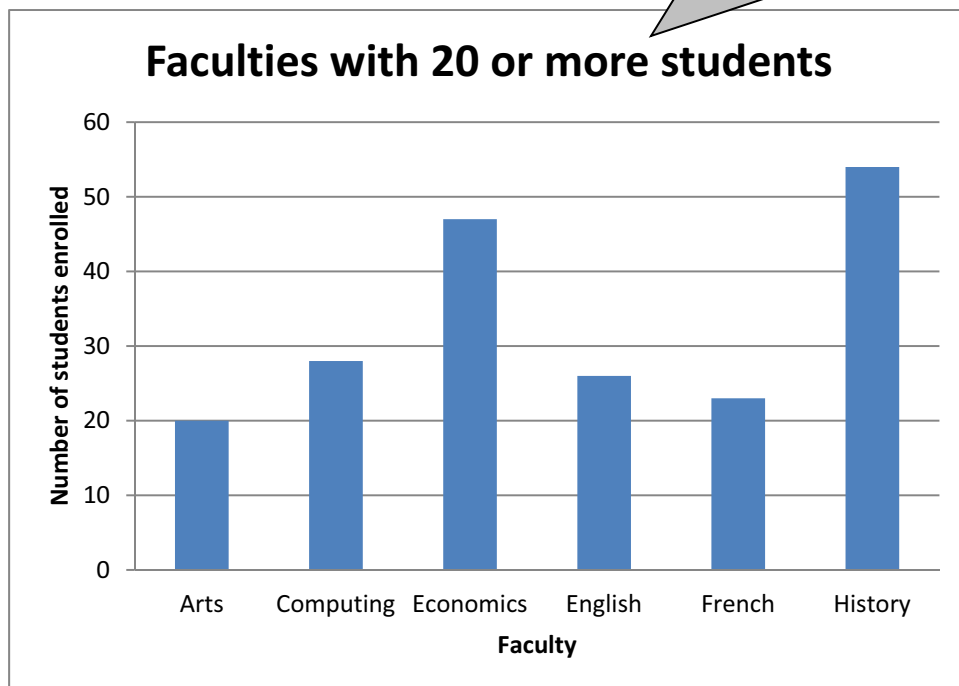11 September 2011   Page 3 of 3

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Number of students enrolled in each Faculty:

Agriculture	4
Arts	20
Computing	28
Construction	9
Economics	47
English	26
French	23
Geography	3
German	8
History	54
Italian	10
Law	15
Mathematics	7
Philosophy	11

Correct calculated totals: 7 marks
Award 1 mark for each correct pair
No Politics, Psychology or Science Faculty visible
1 mark

Extracted >=20 2 marks
Appropriate chart type 2 marks
Appropriate title 1 mark
Appropriate titles & labels 2 marks

Faculties with 20 or more students

Bar chart titled "Faculties with 20 or more students" with y-axis "Number of students enrolled" (0 to 60) and x-axis "Faculty": Arts 20, Computing 28, Economics 47, English 26, French 23, History 54.

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Step 23

Content (K & U) – Maximum 10 marks

Accept different solutions like:

Set document as a 'shared document'…
  …with read-write permissions for all
  …set full permissions for me
Other users track changes
They submit their documents with (suggested) tracked changes
  …initials/staff codes
  As administrator I will review their changes...
  …and accept changes…
  …reject each change

Set document permissions to read only for other users
They save in own user area with read/write permissions
Their version of document merged with master copy
I will review again each change after the merge

Saving documents/files with version numbers/identifier (eg initials) of editor
…use of sequential version numbering systems

Other suitable ideas:
'Comments' used to review original
Comments inserted
Comments removed by me
Compare & Merge