ITB Test 2

Spreadsheets and Databases

- Worth 20%
- 2 hour lab test
- Multiple choice

Wed	14th Dec	12-2	Room 250
Friday	16th Dec	1-3	Room 356

What you have to do:

You will be given two sets of data

- Data to be imported into Excel
- Access database

You then use the data sets to answer the questions

Test Conditions

- 40 multiple choice questions
- Open Book, but NO physical calculators

All the questions are on material from the 5 database handouts + the 4 spreadsheet handouts (lecture and lab)

Spreadsheet structure

Information about customers, their age, gender and location, along with mobile phone usage data

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The following columns will be available for analysis

attribute	explanation	examples
CustomerID	primary key (number)	245, 568
Firstname	string	Gary, William
Surname	string	Collins, Atkinson
Sex	string	F or M
Age	number	21, 24, 31
Address	string	15 Spring Grove
Town	string	Kingston, Richmond
Daytime call minutes	number	45
Evening call minutes	number	36
Weekend call minutes	number	56
Text messages	number	45

The following columns will be available for analysis

Customer ID	Firstname	Surname	Sex	Age	Address	Town	Daytime calls mins	Evening calls mins	Weekend calls mins	Text messages
1	Jennifer	Ball	F	21	15 Thurleston Avenue	Kingston	45	26	25	71
2	William	Irvine	M	24	2/11 Embankment Gardens	Kingston	47	23	43	30
3	Gary	Collins	M	31	59 Spring Gardens	Kingston	26	23	41	28
4	Arlene	Atkinson	F	23	69 Lever Street	Kingston	90	26	25	26

Note how the spreadsheet data will be sourced from a HTML table ...

Access database structure

Responses to a survey on income, reasons for working, living location (region) - 4 tables

tablename	contents
survey	survey responses
region	regions surveyed
reason	reasons for working
income	income bands

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survey table: information about the people who responded to the survey

attribute	explanation	examples
id	primary key (number)	245, 568
gender	string	male, female
age	number	34
maritalstatus	string	married, single, divorced
education	string	GCSE, Higher Education
nationality	string	English, Scottish
ethnicity	string	White, Asian
income	number	23000, null
region	regioncode (number)	1 to 7
career	Has a career (string)	yes, no, dont know
mostimportant	...reason for working	career development

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survey table: information about the people who responded to the survey

id	gender	age	maritalstatus	education	nationality	ethnicity	income	region
1	Male	61	Married	ONC/BTEC	British	White	9330	1
3	Female	56	Divorced	No Qualificatic	British	White	3040	1
5	Female	16	Single	No Qualificatic	English	White		2
6	Male	27	Single	Degree or High	English	White	2560	2

...and more columns / attributes not shown here

region table: information about the regions in the survey

attribute	explanation	examples
id	primary key (number)	1 to 7
region	region name (string)	London, Scotland, Wales
averagesalary	..for region (number)	22492

id	region	averagesalary
1	London	22498
2	Midlands/East	22491

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income table: information about the salary bands used

attribute	explanation	examples
id	primary key (number)	1 to 8
losal	lowest salary for band	1
hisal	highest salary band	2599

id	losal	hisal
1	1	2599
2	2600	5199
3	5200	10399

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reason table: reason for working

attribute	explanation	examples
id	survey id identifier	1, 567, 1034
reason	.. for working	"career development"

Note that participants can give multiple reasons for working, so id 6 has three entries (three reasons for working)

id	reason
1	To Buy Basics
2	To Buy Basics
2	To Buy Luxuries
5	To Buy Luxuries
6	Career Development
6	It's Normal
6	To Buy Basics

Sample data sets (cut down versions for you to try out before the test)

Technology, Teaching and Learning
but not necessarily in the correct order

⚙ About   Teaching

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ITB test 2 sample data

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Sample data for the ITB test is available.

Sample Database

There is a cut down Access database which has the same structure as the one that will be used in the test, but does not have all the rows the final version will have – sampletestdata.zip. Remember that this is a compressed zip file so the contents will have to be extracted if you wish to make changes to the file.

Sample spreadsheet data

The following table contains sample data for the spreadsheet part of the test

Customer ID	Firstname	Surname	Sex	Age	Address	Town	Daytime calls mins	Evening calls mins	Weekend calls mins	Text messages
1	Jennifer	Ball	F	21	15 Thurleston Avenue	Kingston	45	26	25	71
2	William	Irvine	M	24	2/11 Embankment Gardens	Kingston	47	23	43	30