Task 3 – Database

You are now going to prepare some reports using related tables in a database. Make sure all currency values display the same currency symbol and are set to two decimal places.

18 • Import the file **1803STAFF.csv** using a suitable database package.

Use these field names and data types:

Field Name	Data Type	Description
Staff_ID	Text	This is a unique identification for each employee
Family_Name	Text	
First_Name	Text	
Job_Role_Code	Text	
Department_Code	Text	
Years_Service	Numeric	
Telephone	Text	

•	Set the	Staff	ID field	as a	primary	/ ke\	,

[3]

- Import the file **1803JOBS.csv** as a new table with all fields set as appropriate data types into your database.
 - Set the Job_Code field as a primary key.

[2]

- Import the file **1803DEPARTMENTS.csv** as a new table with all fields set as appropriate data types into your database.
 - Set the *Dept_Code* field as a primary key.

[2]

EVIDENCE 5

Place in your Evidence Document screenshots showing the field names and data types used in the three tables.

- Create one-to-many relationships as links between the:
 - Job_Code field in the jobs table and the Job_Role_Code field in the staff table
 - Dept_Code field in the departments table and the Department_Code field in the staff table.

EVIDENCE 6

Place in your Evidence Document screenshot(s) showing the relationships between the three tables.

[2]

22 • Create a data entry form using all the fields in the staff table.

[1]

23 • Add the following record to the staff table using your form:

Staff_ID	Family_Name	First_Name	Job_Role_ Code	Department_ Code	Years_ Service	Telephone
TU221	Kapoor	Shashi	PG	СН	1	5618

Check your data entry for errors.

EVIDENCE 7

Place in your Evidence Document a screenshot showing this data in your form.

[1]

A pay increase is made for each year of service. You will calculate the current salary of each member of staff based on their years of service.

- Using fields from all tables produce a report which:
 - contains a new field called Current_Salary. It is the Base_Pay for their job plus an increase of 400.00 for each year of service
 - displays the contents of this field as currency
 - shows only the records where the Faculty is Engineering but excludes staff with a Job_ Description of Post graduate research
 - shows only the fields Staff_ID, First_Name, Family_Name, Job_Description, Department, Faculty, Base_Pay, Years_Service and Current_Salary in this order. Make sure all labels and data are fully visible
 - sorts the data into ascending order of years of service
 - o has a page orientation of landscape and fits on a single page wide
 - calculates the average years of service for this Faculty and places it at the bottom of the report below the Years_Service column, formatted as an integer
 - has a label Average time with the faculty to the left of this number
 - includes the heading Tawara University Faculty of Engineering at the top of the page
 - has your name, Centre number and candidate number on each page of the report.
 - Save and print your report.

PRINTOUT 2

Make sure that you have entered your **name**, **Centre number** and **candidate number** on your report.

[11]

You are going to prepare a departmental telephone directory.

- **25** Produce a new report from all the data which:
 - includes a new field calculated at run-time with the title External_Phone
 - displays the full external telephone number of the member of staff by prefixing the internal four digit telephone number with +77536, for example, if the internal telephone number was 9999, this number should display as +775369999
 - o only includes staff who work in the biology or chemistry departments
 - shows only the fields First_Name, Family_Name, Job_Description, Department, Telephone and External_Phone in this order
 - is sorted by *Department* in ascending order, then by *Family_Name* in ascending order and by *First_Name* in ascending order
 - o is displayed on a single page in portrait orientation with all data fully visible
 - o includes the title:

Departmental telephone directory

- o includes your name, Centre number and candidate number on the report.
- Save and print this report.

PRINTOUT 3

Make sure that you have your **name**, **Centre number** and **candidate number** on the report.

[8]

[Total: 30]

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