**Coursework 1: Create a HR Analytics Microsoft Access Database.**

Create a Microsoft Access Database from the free-form data in Excel called:

“Your Student Number”.csv

This data is now available on QMPlus

You should assign variable types to each of the fields that you introduce to the database. These should be documented with a reason for the choice.

You should explain why you have omitted fields if you choose to omit any.

You will need more than one table in the database – each table created should have an explanation in the document as to why you have created it.

Each table will need a primary key – please explain your choice of primary key for each table

For each table in the database you will need to define a relationship between it and one (or more) of the other tables in the database when you need to write a query. Please explain your choice of relationship and then write queries to return the following information:

1. The Employee number and starting salary for each employee
2. The Employee number and current salary for each employee
3. The Employee number and gender of each employee
4. The Employee number and age of each employee
5. The average starting salary for an employee
6. The maximum age of a new hire (<1 year at the company).
7. The minimum starting salary by gender
8. The average current salary by gender and job level
9. The average performance rating (with descriptor) by department and sorted lowest to highest
10. Using the employee id as a parameter returns the distance from home and whether that person travels for business.

When you have the answers to these queries please submit a word document with explanations of the database build and the answers to these questions on QMPlus.

Your answer to the query should include a one line comment on your results (is it what you expected? Is anything out of place? Is there nothing noteworthy at all?)

You should also submit your access database.

**So 2 files to be submitted:**

1 – Word document (explanations of build and answers to the queries)

2- Access database

**Marking**

There are seven (7) marks available for each of the queries.

2 marks for the query being present in your database

2 marks for the query being present and returning some rows in your database

3 marks for the query returning the **correct** rows in your database

In addition to the 70 marks available for the queries there will be 30 additional marks available for commenting on your database build and the results of the queries.

The document describing your database build should be no more than 2 pages of a Word document.

For each query your comment on the results should be just one or two sentences.