

Higher Computing Science

Database Design and Development

Computer Sales db – Questions

Use Repl.it to construct queries to answer the following problems. The SQL solution must be in the file **main.sql** to be able to run. When the query is complete copy and paste it into the file associated with the question, i.e **Q1** is copied to **01.sql**, etc.

Q1.

Create a query to return the locality of the employees.

Modify the query to rename the column heading as 'Location'.

Modify the query to group by locality and make the order alphabetical.

Q2.

Create a query that returns the computer and the manufacturer names.

Modify the query to order the results alphabetically for manufacturers and in reverse for the models.

Q3.

Modify the last query to use table aliases. Use the first two letters of each table name used in the query, e.g. if the table name was 'horse' the table alias would be 'ho'.

Q4.

Create a query to return the number of sales.

Q5.

Create a query to count the number of sales that are equal to the maximum price.

Q6.

Create a query to return the minimum, average, and maximum prices of all sales.

Modify the query to round the average value to 2 decimal places.

Modify the query and give each of the returned columns an appropriate name.

Q7.

Create a query that returns the name, CPU speed, and RAM of all the different computer models.

Rename the CPU speed column as 'Speed (GHz)'.

Modify the query to return only the computers with 'Pi' in their names.

Q8.

Create a query that counts the sales in the second half of 2019.

Q9.

Create a query that calculates the value of all the sales in June 2019.

Q10.

Create a query to calculate the VAT due on all the sales in 2019. VAT is calculated at 20% of the sale price. The calculation will need to use a decimal, not a percentage.

Q11.

Create a query to calculate the total value of all returns in 2019.