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-- Date: 24/9
-- Purpose: Lab 2 DBS311
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-- Question 1 - For each job title display the number of employees. Sort the result according to the
number of employees.
/*-- Q1 SOLUTION --*/
SELECT
job_title,
COUNT(*) AS "EMPLOYEES"
FROM
employees
GROUP BY
job_title
ORDER BY
COUNT(*);
-- Question 2 – Display the highest, lowest, and average customer credit limits. Name these results
high,
low, and average. Add a column that shows the difference between the highest and the
lowest credit limits named "High and Low Difference". Round the average to 2 decimal
places.
/*-- Q2 SOLUTION --*/
SELECT
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MAX(credit_limit) AS "HIGH",
 MIN(credit_limit) AS "LOW",
 round(AVG(credit_limit), 2) AS "AVERAGE",
 MAX(credit_limit) - MIN(credit_limit) AS "High Low Difference"
FROM
customers;
 -- Question 3 -
/*Display the order id, the total number of products, and the total order amount for orders
with the total amount over $1,000,000. Sort the result based on total amount from the high
to low values.*/
/*-- Q3 SOLUTION --*/
SELECT
order id,
SUM(quantity) AS "TOTAL_ITEMS",
SUM(unit_price*quantity) AS "TOTAL_AMOUNT"
FROM
order_items
GROUP BY
order_id
ORDER BY
SUM(unit_price*quantity) DESC;
 -- Question 4 -
 /*Display the warehouse id, warehouse name, and the total number of products for each
warehouse. Sort the result according to the warehouse ID.*/
/*-- Q4 SOLUTION --*/
SELECT
warehouses.warehouse_id,
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warehouses.warehouse_name,
SUM(inventories.quantity)
FROM
warehouses
 LEFT JOIN
  inventories
  ON inventories.warehouse_id = warehouses.warehouse_id
GROUP BY
warehouses.warehouse_id,
warehouses.warehouse_name
ORDER BY
warehouses.warehouse_ID;
 -- Question 5 -
/* For each customer display customer number, customer full name, and the total number of
orders issued by the customer.
• If the customer does not have any orders, the result shows 0.
■ Display only customers whose customer name starts with 'O' and contains 'e'.
• Include also customers whose customer name ends with 't'.
Show the customers with highest number of orders first.*/
/*-- Q5 SOLUTION --*/
SELECT
customers.customer_id,
customers.name,
COUNT(orders.customer_id) AS "total number OF orders"
FROM
customers
 LEFT JOIN
  orders
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ON customers.customer_id = orders.customer_id
WHERE
customers.name LIKE '%t'
OR
 customers.name LIKE 'O%'
 AND customers.name LIKE '%e%'
)
GROUP BY
customers.customer_id,
customers.name
ORDER BY
 "total number OF orders" DESC
 -- Question 6 -
 /*Write a SQL query to show the total and the average sale amount for each category. Round
the average to 2 decimal places.*/
/*-- Q6 SOLUTION --*/
SELECT
 products.category_id,
 SUM(ORDER_ITEMS.unit_price*ORDER_ITEMS.quantity) AS "TOTAL_AMOUNT",
 round(AVG( ORDER_ITEMS.unit_price*ORDER_ITEMS.quantity) , 2) AS "AVERRAGE_AMOUNT"
 FROM
 products
 LEFT JOIN
  ORDER_ITEMS
  ON ORDER_ITEMS.product_id = products.product_id
 GROUP BY
 products.category_id
```