**Lab 4**

**QUESTION 1**

Write a SQL query using subqueries to find all employees that have employee\_id greater than 'Dunn' and whose hire\_date are greater than employee\_id number 10 (Hint 2 subqueries are needed and display lastname, employee\_id and hiredate in the main query)

**SELECT last\_name,employee\_id,hire\_date FROM employees**

**WHERE employee\_id > (SELECT employee\_id FROM employees WHERE last\_name = 'Dunn')**

**AND**

**hire\_date > (SELECT hire\_date FROM employees WHERE employee\_id = 10);**

Table

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**QUESTION 2**

Write a SQL query using subqueries to find all customers that have customer\_id greater than 'Facebook' and whose credit\_limit are less than “United Continental Holdings” (Hint 2 subqueries are needed and display name, customer\_id and creditlimit in the main query)

**SELECT name, customer\_id, credit\_limit FROM customers**

**WHERE customer\_id > (SELECT customer\_id FROM customers WHERE name = 'Facebook')**

**AND**

**credit\_limit < (SELECT credit\_limit FROM customers WHERE name = 'United Continental Holdings');**

Table

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**QUESTION 3**

Write a SQL query using subqueries to find all customers who have the same credit limit as the maximum credit limit of all customers(Hint 1 subquery and group function are needed and display name, customer\_id and creditlimit in the main query)

**SELECT name, customer\_id, credit\_limit FROM customers**

**WHERE credit\_limit = (SELECT MAX(credit\_limit) FROM customers);**

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**QUESTION 4**

Write a SQL query using subqueries to find all orders who have the order date above the minimum order date and who have ordered before order id 77(Hint 2 subquery and group function are needed and display order id, customer id and order date in the main query)

**SELECT order\_id, customer\_id, order\_date FROM orders**

**WHERE order\_date > (SELECT MIN(order\_date) FROM orders)**

**AND**

**order\_date < (SELECT order\_date FROM orders WHERE order\_id = 77);**

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**QUESTION 5**

Write a SQL query using subqueries to display all orders with minimum order date grouped by the customer id and less than customer id 1’s order date (Hint you will have group by clause, group function and 1 subquery to display the customer id and the minimum of order date in orders table)

**SELECT customer\_id, MIN(order\_date) FROM orders**

**WHERE order\_date < (SELECT MIN(order\_date) FROM orders WHERE customer\_id = 1)**

**GROUP BY customer\_id;**

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**QUESTION 6**

Write a SQL query using subqueries to find the order items whose unit price are above the average of the lowest unit price of each item id (Hint use over() function in main query, you will have group by clause, group function in 1 subquery to display the quantity, unit price, item count of the item id in orders items table)

**SELECT SUM(quantity) AS "Quantity",AVG(unit\_price) AS "Average Lowest Unit Price", COUNT(item\_id) OVER() AS "Total items" FROM order\_items**

**WHERE unit\_price > (SELECT MIN(unit\_price) FROM order\_items)**

**GROUP BY item\_id;**

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