ASSIGNMENT : COURIER MANAGEMENT SYSTEM

PRIYADARSHINI S

DAY 4

Scope: Inner Queries, Non Equi Joins, Equi joins,Exist,Any,All

49. Find couriers that have a weight greater than the average weight of all couriers

50. Find the names of all employees who have a salary greater than the average salary:

51. Find the total cost of all courier services where the cost is less than the maximum cost

52. Find all couriers that have been paid for

53. Find the locations where the maximum payment amount was made

54. Find all couriers whose weight is greater than the weight of all couriers sent by a specific sender (e.g., 'SenderName'):

mysql> select \* from courier

-> where weight > (select avg(weight) from courier);

+-----------+----------+------------+--------+-----------+----------------+--------------+---------------------+------------+

| CourierID | SenderID | ReceiverID | Weight | Status | TrackingNumber | DeliveryDate | HandledByEmployeeID | SentDate |

+-----------+----------+------------+--------+-----------+----------------+--------------+---------------------+------------+

| 103 | 4 | 7 | 5.00 | Pending | TRK765432 | 2025-04-01 | 303 | 2025-03-10 |

| 104 | 6 | 1 | 4.20 | Shipped | TRK654321 | 2025-03-29 | NULL | NULL |

| 106 | 7 | 3 | 6.50 | Delivered | TRK432109 | 2025-03-27 | NULL | NULL |

+-----------+----------+------------+--------+-----------+----------------+--------------+---------------------+------------+

3 rows in set (0.03 sec)

mysql> select name from employee

-> where salary > (select avg(salary) from employee);

+------+

| name |

+------+

| Neha |

+------+

1 row in set (0.01 sec)

mysql> select sum(cost) as total\_cost from courierservices

-> where cost < (select max(cost) from courierservices);

+------------+

| total\_cost |

+------------+

| 5.99 |

+------------+

1 row in set (0.01 sec)

mysql> select \* from courier

-> where courierid in (select courierid from payment);

+-----------+----------+------------+--------+------------+----------------+--------------+---------------------+------------+

| CourierID | SenderID | ReceiverID | Weight | Status | TrackingNumber | DeliveryDate | HandledByEmployeeID | SentDate |

+-----------+----------+------------+--------+------------+----------------+--------------+---------------------+------------+

| 101 | 1 | 2 | 3.20 | Shipped | TRK987654 | 2025-03-30 | 301 | 2025-03-20 |

| 102 | 3 | 5 | 2.50 | Delivered | TRK876543 | 2025-03-28 | 302 | 2025-03-15 |

| 103 | 4 | 7 | 5.00 | Pending | TRK765432 | 2025-04-01 | 303 | 2025-03-10 |

| 104 | 6 | 1 | 4.20 | Shipped | TRK654321 | 2025-03-29 | NULL | NULL |

| 105 | 2 | 4 | 3.75 | In Transit | TRK543210 | 2025-03-31 | NULL | NULL |

| 106 | 7 | 3 | 6.50 | Delivered | TRK432109 | 2025-03-27 | NULL | NULL |

| 107 | 5 | 6 | 1.80 | Pending | TRK321098 | 2025-04-02 | NULL | NULL |

+-----------+----------+------------+--------+------------+----------------+--------------+---------------------+------------+

7 rows in set (0.01 sec)

mysql> select locationid, amount from payment

-> where amount = (select max(amount) from payment);

+------------+--------+

| locationid | amount |

+------------+--------+

| 402 | 12.99 |

| 401 | 12.99 |

| 403 | 12.99 |

+------------+--------+3 rows in set (0.00 sec)

mysql> select \* from courier

-> where weight > all (select weight from courier where senderid = 1);

+-----------+----------+------------+--------+------------+----------------+--------------+---------------------+------------+

| CourierID | SenderID | ReceiverID | Weight | Status | TrackingNumber | DeliveryDate | HandledByEmployeeID | SentDate |

+-----------+----------+------------+--------+------------+----------------+--------------+---------------------+------------+

| 103 | 4 | 7 | 5.00 | Pending | TRK765432 | 2025-04-01 | 303 | 2025-03-10 |

| 104 | 6 | 1 | 4.20 | Shipped | TRK654321 | 2025-03-29 | NULL | NULL |

| 105 | 2 | 4 | 3.75 | In Transit | TRK543210 | 2025-03-31 | NULL | NULL |

| 106 | 7 | 3 | 6.50 | Delivered | TRK432109 | 2025-03-27 | NULL | NULL |

+-----------+----------+------------+--------+------------+----------------+--------------+---------------------+------------+

4 rows in set (0.01 sec)