

# COURIER MANAGEMENT SYSTEM

## TASK 1

### Objective:

- Design a SQL schema for a Courier Management System.
- Create tables for Customers, Couriers, Orders, and Parcels.
- Define relationships between these tables using appropriate foreign keys.
- Insert sample data into these tables.

### Tables Created:

- User
- Courier
- CourierServices
- Employee
- Location
- Payment

tables created in the data base

```
mysql> SHOW TABLES;
+-----+
| Tables_in_courier_db |
+-----+
| courier               |
| employee              |
| location              |
| payment               |
| services              |
| users                 |
+-----+
6 rows in set (0.00 sec)
```

### 1. courier table

```
mysql> SELECT * FROM courier
-> ;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| courier_id | sender_name | sender_address | receiver_name | receiver_address | weight | status | tracking_number | delivery_date | custo
mer_id | employee_id | location_id | service_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Alice | 123 Main St | Bob | 456 Elm St | 2.5 | In Transit | TRK123456 | 2025-03-20 | 
| NULL | 1 | 1 | NULL | 1 | 1 | 1 | 1 | 1 | 1 |
| 2 | Charlie | 789 Oak St | David | 101 Pine St | 1.8 | Delivered | TRK789101 | 2025-03-15 | 
| NULL | 1 | 1 | NULL | 1 | 1 | 1 | 1 | 1 | 1 |
| 3 | manoj | chennai | jeeva | elephant street | 3.5 | Delivered | TRK003 | 2025-03-22 | 
| 1 | 1 | 1 | NULL | 1 | 1 | 1 | 1 | 1 | 1 |
| 4 | Tom Hardy | 56 Oak St | Emma Watson | 78 Elm Ave | 2 | In Transit | TRK004 | 2025-03-23 | 
| 2 | 1 | 2 | NULL | 2 | 2 | 2 | 2 | 2 | 2 |
| 5 | Nancy Drew | 12 Cherry Ln | David Smith | 89 Cedar Rd | 5 | Pending | TRK005 | 2025-03-24 | 
| 3 | 1 | 2 | NULL | 2 | 2 | 2 | 2 | 2 | 2 |
| 6 | Steve Rogers | 9 Captain St | Tony Stark | Stark Tower, NY | 10.5 | Delivered | TRK006 | 2025-03-25 | 
| 4 | 2 | 2 | NULL | 2 | 2 | 2 | 2 | 2 | 2 |
| 7 | Bruce Wayne | Wayne Manor | Clark Kent | Daily Planet, Metropolis | 7 | In Transit | TRK007 | 2025-03-26 | 
| 5 | 2 | 3 | NULL | 3 | 3 | 3 | 3 | 3 | 3 |
| 8 | Diana Prince | Themyscira | Barry Allen | Central City | 4.5 | Pending | TRK008 | 2025-03-27 | 
| 6 | 2 | 3 | NULL | 3 | 3 | 3 | 3 | 3 | 3 |
```

### 3. Employee table

mysql> DESC employee;

| Field          | Type          | Null | Key | Default | Extra |
|----------------|---------------|------|-----|---------|-------|
| employee_id    | int           | NO   | PRI | NULL    |       |
| name           | varchar(255)  | YES  |     | NULL    |       |
| email          | varchar(255)  | YES  | UNI | NULL    |       |
| contact_number | varchar(20)   | YES  |     | NULL    |       |
| role           | varchar(50)   | YES  |     | NULL    |       |
| salary         | decimal(10,2) | YES  |     | NULL    |       |

4. User table

mysql> DESC users;

| Field            | Type         | Null | Key | Default | Extra          |
|------------------|--------------|------|-----|---------|----------------|
| customer_id      | int          | NO   | PRI | NULL    | auto_increment |
| customer_name    | varchar(100) | YES  |     | NULL    |                |
| customer_address | varchar(255) | YES  |     | NULL    |                |
| phone_number     | varchar(20)  | YES  |     | NULL    |                |

4 rows in set (0.00 sec)

5. Services table

mysql> DESC services;

| Field        | Type          | Null | Key | Default | Extra          |
|--------------|---------------|------|-----|---------|----------------|
| service_id   | int           | NO   | PRI | NULL    | auto_increment |
| service_name | varchar(100)  | YES  |     | NULL    |                |
| service_type | varchar(100)  | YES  |     | NULL    |                |
| cost         | decimal(10,2) | YES  |     | NULL    |                |

4 rows in set (0.00 sec)

6. Payment table

mysql> DESC payment;

| Field        | Type          | Null | Key | Default | Extra |
|--------------|---------------|------|-----|---------|-------|
| payment_id   | int           | NO   | PRI | NULL    |       |
| courier_id   | int           | YES  | MUL | NULL    |       |
| location_id  | int           | YES  | MUL | NULL    |       |
| amount       | decimal(10,2) | YES  |     | NULL    |       |
| payment_date | date          | YES  |     | NULL    |       |
| employee_id  | int           | YES  |     | NULL    |       |
| service_id   | int           | YES  |     | NULL    |       |

7 rows in set (0.00 sec)

7. Location table

```
mysql> DESC location;
```

| Field         | Type         | Null | Key | Default | Extra |
|---------------|--------------|------|-----|---------|-------|
| location_id   | int          | NO   | PRI | NULL    |       |
| location_name | varchar(100) | YES  |     | NULL    |       |
| address       | text         | YES  |     | NULL    |       |

3 rows in set (0.00 sec)

relationships between these tables using appropriate foreign keys

```
mysql> DESC courier;
```

| Field            | Type         | Null | Key | Default | Extra |
|------------------|--------------|------|-----|---------|-------|
| courier_id       | int          | NO   | PRI | NULL    |       |
| sender_name      | varchar(100) | YES  |     | NULL    |       |
| sender_address   | varchar(255) | YES  |     | NULL    |       |
| receiver_name    | varchar(100) | YES  |     | NULL    |       |
| receiver_address | varchar(255) | YES  |     | NULL    |       |
| weight           | float        | YES  |     | NULL    |       |
| status           | varchar(50)  | YES  |     | NULL    |       |
| tracking_number  | varchar(50)  | YES  | UNI | NULL    |       |
| delivery_date    | date         | YES  |     | NULL    |       |
| customer_id      | int          | YES  | MUL | NULL    |       |
| employee_id      | int          | YES  | MUL | NULL    |       |
| location_id      | int          | YES  | MUL | NULL    |       |
| service_id       | int          | YES  | MUL | NULL    |       |

## TASK 2

### Objective:

- Perform SQL queries on the created database.

### Queries Performed:

01. List all customers.

```
mysql> SELECT sender_name FROM courier;
+-----+
| sender_name |
+-----+
| Alice       |
| Charlie     |
| manoj       |
| Tom Hardy   |
| Nancy Drew  |
| Steve Rogers|
| Bruce Wayne |
| Diana Prince|
| Peter Parker|
| Natasha Romanoff|
| Clark Kent  |
| Thor Odinson|
| subramani   |
+-----+
13 rows in set (0.00 sec)
```

02. List all orders for a specific customer.

```
mysql> SELECT * FROM courier WHERE customer_id = 1;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| courier_id | sender_name | sender_address | receiver_name | receiver_address | weight | status | tracking_number | delivery_date | customer_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 3 | manoj | chennai | jeeva | elephant street | 3.5 | Delivered | TRK003 | 2025-03-22 | 1 |
| 14 | manoj | chennai | swetha | bharathi street | 4.5 | In Transit | TRK014 | 2025-03-25 | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
```

03. List all couriers.

```
mysql> SELECT * FROM Courier;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| courier_id | sender_name | sender_address | receiver_name | receiver_address | weight | status | tracking_number | delivery_date | customer_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 1 | Alice | 123 Main St | Bob | 456 Elm St | 2.5 | In Transit | TRK123456 | 2025-03-20 | NULL |
| 2 | Charlie | 789 Oak St | David | 101 Pine St | 1.8 | Delivered | TRK789101 | 2025-03-15 | NULL |
| 3 | manoj | chennai | jeeva | elephant street | 3.5 | Delivered | TRK003 | 2025-03-22 | 1 |
| 4 | Tom Hardy | 56 Oak St | Emma Watson | 78 Elm Ave | 2 | In Transit | TRK004 | 2025-03-23 | 2 |
| 5 | Nancy Drew | 12 Cherry Ln | David Smith | 89 Cedar Rd | 5 | Pending | TRK005 | 2025-03-24 | 3 |
| 6 | Steve Rogers | 9 Captain St | Tony Stark | Stark Tower, NY | 10.5 | Delivered | TRK006 | 2025-03-25 | 4 |
| 7 | Bruce Wayne | Wayne Manor | Clark Kent | Daily Planet, Metropolis | 7 | In Transit | TRK007 | 2025-03-26 | 5 |
| 8 | Diana Prince | Themyscira | Barry Allen | Central City | 4.5 | Pending | TRK008 | 2025-03-27 | 6 |
| 9 | Peter Parker | 20 Queens St | Mary Jane | Brooklyn | 2.5 | Delivered | TRK009 | 2025-03-28 | 7 |
| 10 | Natasha Romanoff | Red Room | Hawkeye | Avengers Facility | 8 | Delivered | TRK010 | 2025-03-29 | 8 |
| 11 | Clark Kent | Smallville | Lois Lane | Metropolis | 1 | In Transit | TRK011 | 2025-03-30 | 9 |
| 12 | Thor Odinson | Asgard | Loki Laufeyson | Jotunheim | 6.5 | Pending | TRK012 | 2025-03-31 | 10 |
| 14 | manoj | chennai | swetha | bharathi street | 4.5 | In Transit | TRK014 | 2025-03-25 | 1 |
| 101 | subramani | mogappair wast | saravana | padi | 10 | In Transit | TRK001 | 2025-03-20 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
14 rows in set (0.00 sec)
```

04. List all packages for a specific order.

```
mysql> SELECT * FROM courier WHERE courier_id = 3;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| courier_id | sender_name | sender_address | receiver_name | receiver_address | weight | status | tracking_number | delivery_date | customer_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 3 | manoj | chennai | jeeva | elephant street | 3.5 | Delivered | TRK003 | 2025-03-22 | 1 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

05. List all deliveries for a specific courier:

```
mysql> SELECT * FROM courier WHERE status = 'Delivered' AND courier_id = 6;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| courier_id | sender_name | sender_address | receiver_name | receiver_address | weight | status | tracking_number | delivery_date | customer_id |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 6 | Steve Rogers | 9 Captain St | Tony Stark | Stark Tower, NY | 10.5 | Delivered | TRK006 | 2025-03-25 | 4 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

06. List all undelivered packages.

```
mysql> SELECT * FROM courier WHERE status NOT IN ('Delivered');
```

| courier_id | sender_name  | sender_address | receiver_name  | receiver_address         | weight | status     | tracking_number | delivery_date | customer_id |
|------------|--------------|----------------|----------------|--------------------------|--------|------------|-----------------|---------------|-------------|
| 1          | Alice        | 123 Main St    | Bob            | 456 Elm St               | 2.5    | In Transit | TRK123456       | 2025-03-20    | NULL        |
| 4          | Tom Hardy    | 56 Oak St      | Emma Watson    | 78 Elm Ave               | 2      | In Transit | TRK004          | 2025-03-23    | 2           |
| 5          | Nancy Drew   | 12 Cherry Ln   | David Smith    | 89 Cedar Rd              | 5      | Pending    | TRK005          | 2025-03-24    | 3           |
| 7          | Bruce Wayne  | Wayne Manor    | Clark Kent     | Daily Planet, Metropolis | 7      | In Transit | TRK007          | 2025-03-26    | 5           |
| 8          | Diana Prince | Themyscira     | Barry Allen    | Central City             | 4.5    | Pending    | TRK008          | 2025-03-27    | 6           |
| 11         | Clark Kent   | Smallville     | Lois Lane      | Metropolis               | 1      | In Transit | TRK011          | 2025-03-30    | 9           |
| 12         | Thor Odinson | Asgard         | Loki Laufeyson | Jotunheim                | 6.5    | Pending    | TRK012          | 2025-03-31    | 10          |
| 14         | manoj        | chennai        | swetha         | bharathi street          | 4.5    | In Transit | TRK014          | 2025-03-25    | 1           |
| 22         | Karthik Raja | Coimbatore     | Suresh Iyer    | Chennai                  | 2.5    | In Transit | TRK022          | 2025-03-30    | 4           |
| 23         | Nisha Gupta  | Lucknow        | Arjun Reddy    | Hyderabad                | 5.5    | Pending    | TRK023          | 2025-03-31    | 5           |
| 24         | Anand Sharma | Bangalore      | Deepak Jain    | Kolkata                  | 3.2    | In Transit | TRK024          | 2025-03-19    | 6           |
| 25         | Sita Devi    | Patna          | Ravi Kumar     | Jaipur                   | 2      | In Transit | TRK025          | 2025-03-19    | 7           |
| 26         | Rahul Mehta  | Surat          | Geeta Yadav    | Noida                    | 4.5    | Pending    | TRK026          | 2025-04-01    | 8           |
| 27         | Priya Sharma | Nagpur         | Vikas Kumar    | Ranchi                   | 6      | In Transit | TRK027          | 2025-04-02    | 9           |
| 29         | Akash Verma  | Agra           | Kiran Bedi     | Varanasi                 | 2.5    | Pending    | TRK029          | 2025-04-04    | 11          |
| 101        | subramani    | mogappair wast | saravana       | padi                     | 10     | In Transit | TRK001          | 2025-03-20    | NULL        |

16 rows in set (0.01 sec)

### 07. List all packages scheduled for delivery today.

```
mysql> SELECT * FROM courier WHERE delivery_date = CURDATE();
```

| courier_id | sender_name  | sender_address | receiver_name | receiver_address | weight | status     | tracking_number | delivery_date | customer_id |
|------------|--------------|----------------|---------------|------------------|--------|------------|-----------------|---------------|-------------|
| 24         | Anand Sharma | Bangalore      | Deepak Jain   | Kolkata          | 3.2    | In Transit | TRK024          | 2025-03-19    | 6           |
| 25         | Sita Devi    | Patna          | Ravi Kumar    | Jaipur           | 2      | In Transit | TRK025          | 2025-03-19    | 7           |

2 rows in set (0.00 sec)

### 08. List all packages with a specific status.

```
mysql> SELECT * FROM courier WHERE status = 'In Transit';
```

| courier_id | sender_name  | sender_address | receiver_name | receiver_address         | weight | status     | tracking_number | delivery_date | customer_id |
|------------|--------------|----------------|---------------|--------------------------|--------|------------|-----------------|---------------|-------------|
| 1          | Alice        | 123 Main St    | Bob           | 456 Elm St               | 2.5    | In Transit | TRK123456       | 2025-03-20    | NULL        |
| 4          | Tom Hardy    | 56 Oak St      | Emma Watson   | 78 Elm Ave               | 2      | In Transit | TRK004          | 2025-03-23    | 2           |
| 7          | Bruce Wayne  | Wayne Manor    | Clark Kent    | Daily Planet, Metropolis | 7      | In Transit | TRK007          | 2025-03-26    | 5           |
| 11         | Clark Kent   | Smallville     | Lois Lane     | Metropolis               | 1      | In Transit | TRK011          | 2025-03-30    | 9           |
| 14         | manoj        | chennai        | swetha        | bharathi street          | 4.5    | In Transit | TRK014          | 2025-03-25    | 1           |
| 22         | Karthik Raja | Coimbatore     | Suresh Iyer   | Chennai                  | 2.5    | In Transit | TRK022          | 2025-03-30    | 4           |
| 24         | Anand Sharma | Bangalore      | Deepak Jain   | Kolkata                  | 3.2    | In Transit | TRK024          | 2025-03-19    | 6           |
| 25         | Sita Devi    | Patna          | Ravi Kumar    | Jaipur                   | 2      | In Transit | TRK025          | 2025-03-19    | 7           |
| 27         | Priya Sharma | Nagpur         | Vikas Kumar   | Ranchi                   | 6      | In Transit | TRK027          | 2025-04-02    | 9           |
| 101        | subramani    | mogappair wast | saravana      | padi                     | 10     | In Transit | TRK001          | 2025-03-20    | NULL        |

10 rows in set (0.00 sec)

### 09. Calculate the total number of packages for each courier.

```
mysql> SELECT courier_id, COUNT(*) AS total_packages FROM courier GROUP BY courier_id;
```

| courier_id | total_packages |
|------------|----------------|
| 1          | 1              |
| 2          | 1              |
| 3          | 1              |
| 4          | 1              |
| 5          | 1              |
| 6          | 1              |
| 7          | 1              |
| 8          | 1              |
| 9          | 1              |
| 10         | 1              |
| 11         | 1              |
| 12         | 1              |
| 14         | 1              |
| 20         | 1              |
| 21         | 1              |
| 22         | 1              |
| 23         | 1              |
| 24         | 1              |
| 25         | 1              |
| 26         | 1              |
| 27         | 1              |
| 28         | 1              |
| 29         | 1              |
| 101        | 1              |

24 rows in set (0.00 sec)

### 10. Find the average delivery time for each courier.

```
mysql> SELECT courier_id, AVG(DATEDIFF(delivery_date, NOW())) AS avg_delivery_time
-> FROM courier GROUP BY courier_id;
```

| courier_id | avg_delivery_time |
|------------|-------------------|
| 1          | 1.0000            |
| 2          | -4.0000           |
| 3          | 3.0000            |
| 4          | 4.0000            |
| 5          | 5.0000            |
| 6          | 6.0000            |
| 7          | 7.0000            |
| 8          | 8.0000            |
| 9          | 9.0000            |
| 10         | 10.0000           |
| 11         | 11.0000           |
| 12         | 12.0000           |
| 14         | 6.0000            |
| 20         | 1.0000            |
| 21         | 2.0000            |
| 22         | 11.0000           |
| 23         | 12.0000           |
| 24         | 0.0000            |
| 25         | 0.0000            |
| 26         | 13.0000           |
| 27         | 14.0000           |
| 28         | 15.0000           |
| 29         | 16.0000           |
| 101        | 1.0000            |

24 rows in set (0.02 sec)

11. List all packages with a specific weight range.

```
mysql> SELECT * FROM courier WHERE weight BETWEEN 3 AND 7;
```

| courier_id | sender_name  | sender_address | receiver_name  | receiver_address         | weight | status     | tracking_number | delivery_date | customer_id |
|------------|--------------|----------------|----------------|--------------------------|--------|------------|-----------------|---------------|-------------|
| 3          | manoj        | chennai        | jeeva          | elephant street          | 3.5    | Delivered  | TRK003          | 2025-03-22    | 1           |
| 5          | Nancy Drew   | 12 Cherry Ln   | David Smith    | 89 Cedar Rd              | 5      | Pending    | TRK005          | 2025-03-24    | 3           |
| 7          | Bruce Wayne  | Wayne Manor    | Clark Kent     | Daily Planet, Metropolis | 7      | In Transit | TRK007          | 2025-03-26    | 5           |
| 8          | Diana Prince | Themyscira     | Barry Allen    | Central City             | 4.5    | Pending    | TRK008          | 2025-03-27    | 6           |
| 12         | Thor Odinson | Asgard         | Loki Laufeyson | Jotunheim                | 6.5    | Pending    | TRK012          | 2025-03-31    | 10          |
| 14         | manoj        | chennai        | swetha         | bharathi street          | 4.5    | In Transit | TRK014          | 2025-03-25    | 1           |
| 20         | Ajay Kumar   | Delhi          | Vijay Singh    | Mumbai                   | 3      | Delivered  | TRK020          | 2025-03-20    | 2           |
| 21         | Meera Shah   | Pune           | Rohan Patel    | Ahmedabad                | 4      | Delivered  | TRK021          | 2025-03-21    | 3           |
| 23         | Nisha Gupta  | Lucknow        | Arjun Reddy    | Hyderabad                | 5.5    | Pending    | TRK023          | 2025-03-31    | 5           |
| 24         | Anand Sharma | Bangalore      | Deepak Jain    | Kolkata                  | 3.2    | In Transit | TRK024          | 2025-03-19    | 6           |
| 26         | Rahul Mehta  | Surat          | Geeta Yadav    | Noida                    | 4.5    | Pending    | TRK026          | 2025-04-01    | 8           |
| 27         | Priya Sharma | Nagpur         | Vikas Kumar    | Ranchi                   | 6      | In Transit | TRK027          | 2025-04-02    | 9           |

12 rows in set (0.00 sec)

12. Retrieve employees whose names contain 'John'.

```
mysql> SELECT * FROM employee WHERE name LIKE '%John%';
```

| employee_id | name        | email                   | contact_number | role               | salary   |
|-------------|-------------|-------------------------|----------------|--------------------|----------|
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 |

1 row in set (0.01 sec)

13. Retrieve all courier records with payments greater than \$50.

```
mysql> SELECT *
-> FROM courier c
-> JOIN payment p ON c.courier_id = p.courier_id
-> WHERE p.amount > 50;
```

| courier_id | sender_name      | sender_address | receiver_name  | receiver_address         | weight | status     | tracking_number | delivery_date | customer_id | payment_id | courier_id | location_id | amount | payment_date |
|------------|------------------|----------------|----------------|--------------------------|--------|------------|-----------------|---------------|-------------|------------|------------|-------------|--------|--------------|
| 1          | Alice            | 122 Main St    | Bob            | 856 Elm St               | 2.5    | In Transit | TRK123456       | 2025-03-20    | NULL        | 1          | 1          | 101         | 150.00 | 2025-03-21   |
| 2          | Charlie          | 789 Oak St     | David          | 101 Pine St              | 1.8    | Delivered  | TRK789101       | 2025-03-15    | NULL        | 2          | 2          | 102         | 75.00  | 2025-03-16   |
| 3          | manoj            | chennai        | jeena          | elephant street          | 3.5    | Delivered  | TRK003          | 2025-03-22    |             |            |            |             |        |              |
| 4          | Tom Hardy        | 56 Oak St      | Emma Watson    | 78 Elm Ave               | 2      | In Transit | TRK004          | 2025-03-23    |             |            |            |             |        |              |
| 5          | Steve Rogers     | 9 Captain St   | Tony Stark     | Stark Tower, NY          | 10.5   | Delivered  | TRK006          | 2025-03-25    |             |            |            |             |        |              |
| 6          | Bruce Wayne      | Wayne Manor    | Clark Kent     | Daily Planet, Metropolis | 7      | In Transit | TRK007          | 2025-03-26    |             |            |            |             |        |              |
| 7          | Diana Prince     | Themyscira     | Barry Allen    | Central City             | 4.5    | Pending    | TRK008          | 2025-03-27    |             |            |            |             |        |              |
| 8          | Natasha Romanoff | Red Room       | Hawkeye        | Avengers Facility        | 8      | Delivered  | TRK010          | 2025-03-29    |             |            |            |             |        |              |
| 9          | Clark Kent       | Smallville     | Lois Lane      | Metropolis               | 1      | In Transit | TRK011          | 2025-03-30    |             |            |            |             |        |              |
| 10         | Thor Odinson     | Asgard         | Loki Laufeyson | Jotunheim                | 6.5    | Pending    | TRK012          | 2025-03-31    |             |            |            |             |        |              |
| 11         | Ajay Kumar       | Delhi          | Vijay Singh    | Mumbai                   | 3      | Delivered  | TRK020          | 2025-03-20    |             |            |            |             |        |              |
| 12         | Meera Shah       | Pune           | Rohan Patel    | Ahmedabad                | 4      | Delivered  | TRK021          | 2025-03-21    |             |            |            |             |        |              |
| 13         | Nisha Gupta      | Lucknow        | Arjun Reddy    | Hyderabad                | 5.5    | Pending    | TRK023          | 2025-03-31    |             |            |            |             |        |              |
| 14         | Anand Sharma     | Bangalore      | Deepak Jain    | Kolkata                  | 3.2    | In Transit | TRK024          | 2025-03-19    |             |            |            |             |        |              |
| 15         | Sita Devi        | Patna          | Ravi Kumar     | Jaipur                   | 2      | In Transit | TRK025          | 2025-03-19    |             |            |            |             |        |              |
| 16         | Rahul Mehta      | Surat          | Geeta Yadav    | Goa                      | 4.5    | Pending    | TRK026          | 2025-04-01    |             |            |            |             |        |              |
| 17         | Priya Sharma     | Nagpur         | Vikas Kumar    | Ranchi                   | 6      | In Transit | TRK027          | 2025-04-02    |             |            |            |             |        |              |
| 18         | Rajesh Khanna    | Chandigarh     | Sundar Iyer    | Mysore                   | 1.5    | Delivered  | TRK028          | 2025-04-03    |             |            |            |             |        |              |
| 19         | Akash Verma      | Agra           | Kiran Bhatt    | Varanasi                 | 2.5    | Pending    | TRK029          | 2025-04-04    |             |            |            |             |        |              |
| 20         | subramani        | mogappair wast | saravana       | padi                     | 10     | In Transit | TRK001          | 2025-03-20    | NULL        | 23         | 101        | 103         | 300.00 | 2025-03-20   |

20 rows in set (0.01 sec)

TASK 3

GroupBy, Aggregate Functions, Having, Order By, where

14. Find the total number of couriers handled by each employee.

```
mysql> SELECT employee_id, COUNT(courier_id) AS total_couriers
-> FROM courier
-> GROUP BY employee_id;
```

| employee_id | total_couriers |
|-------------|----------------|
| 1           | 7              |
| 2           | 8              |
| 3           | 9              |

3 rows in set (0.00 sec)

15. Calculate the total revenue generated by each location

```
mysql> SELECT location_id, SUM(amount) AS total_revenue
-> FROM payment
-> GROUP BY location_id;
```

| location_id | total_revenue |
|-------------|---------------|
| 101         | 455.00        |
| 102         | 525.00        |
| 103         | 580.00        |
| 104         | 145.00        |
| 105         | 90.00         |
| 106         | 175.00        |
| 107         | 155.00        |
| 108         | 240.00        |
| 109         | 165.00        |
| 110         | 175.00        |

10 rows in set (0.00 sec)



16. Find the total number of couriers delivered to each location.

```
mysql> SELECT location_id, COUNT(courier_id) AS delivered_count
-> FROM courier
-> WHERE status = 'Delivered'
-> GROUP BY location_id;
```

| location_id | delivered_count |
|-------------|-----------------|
| 1           | 2               |
| 2           | 1               |
| 3           | 1               |
| 4           | 1               |
| 5           | 2               |
| 8           | 1               |

6 rows in set (0.00 sec)

17. Find the courier with the highest average delivery time:

18. Find Locations with Total Payments Less Than a Certain Amount

```
mysql> SELECT location_id, SUM(amount) AS total_payment
-> FROM payment
-> GROUP BY location_id
-> HAVING total_payment < 200;
```

| location_id | total_payment |
|-------------|---------------|
| 104         | 145.00        |
| 105         | 90.00         |
| 106         | 175.00        |
| 107         | 155.00        |
| 109         | 165.00        |
| 110         | 175.00        |

22. Calculate Total Payments per Location



```
mysql> SELECT location_id, SUM(amount) AS total_payments
-> FROM payment
-> GROUP BY location_id;
```

| location_id | total_payments |
|-------------|----------------|
| 101         | 455.00         |
| 102         | 525.00         |
| 103         | 580.00         |
| 104         | 145.00         |
| 105         | 90.00          |
| 106         | 175.00         |
| 107         | 155.00         |
| 108         | 240.00         |
| 109         | 165.00         |
| 110         | 175.00         |

10 rows in set (0.00 sec)

24. Retrieve couriers who have received payments totaling more than \$1000 in a specific location (LocationID = X):
25. Retrieve couriers who have received payments totaling more than \$1000 after a certain date (PaymentDate > 'YYYY-MM-DD'):
26. Retrieve locations where the total amount received is more than \$5000 before a certain date (PaymentDate > 'YYYY-MM-DD')

TASK 4

23. Retrieve Payments with Courier Information

```
mysql> SELECT p.*, c.*
-> FROM payment p
-> INNER JOIN courier c ON p.courier_id = c.courier_id;
```

| payment_id | courier_id | location_id | amount | payment_date | courier_id | sender_name      | sender_address | receiver_name  | receiver_address         | weight | status     | tracking_number | delivery_date | customer_id | employee_id | location_id |
|------------|------------|-------------|--------|--------------|------------|------------------|----------------|----------------|--------------------------|--------|------------|-----------------|---------------|-------------|-------------|-------------|
| 1          | 1          | 101         | 150.00 | 2025-03-21   | 1          | Alice            | 123 Main St    | Bob            | 456 Elm St               | 2.5    | In Transit | TRK123456       | 2025-03-20    | NULL        | 1           | 1           |
| 2          | 2          | 102         | 75.00  | 2025-03-16   | 2          | Charlie          | 789 Oak St     | David          | 101 Pine St              | 1.8    | Delivered  | TRK789101       | 2025-03-15    | NULL        | 1           | 1           |
| 3          | 3          | 103         | 200.00 | 2025-03-23   | 3          | Manoj            | chennai        | jeena          | elephant street          | 3.5    | Delivered  | TRK003          | 2025-03-22    | 1           | 1           | 1           |
| 4          | 4          | 104         | 90.00  | 2025-03-24   | 4          | Tom Hardy        | 56 Oak St      | Emma Watson    | 78 Elm Ave               | 2      | In Transit | TRK004          | 2025-03-23    | 2           | 1           | 2           |
| 5          | 5          | 105         | 50.00  | 2025-03-25   | 5          | Nancy Drew       | 12 Cherry Ln   | David Smith    | 89 Cedar Rd              | 5      | Pending    | TRK005          | 2025-03-24    | 3           | 1           | 2           |
| 6          | 6          | 106         | 110.00 | 2025-03-26   | 6          | Steve Rogers     | 9 Captain St   | Tony Stark     | Stark Tower, NY          | 10.5   | Delivered  | TRK006          | 2025-03-25    | 4           | 2           | 2           |
| 7          | 7          | 107         | 60.00  | 2025-03-27   | 7          | Bruce Wayne      | Wayne Manor    | Clark Kent     | Daily Planet, Metropolis | 7      | In Transit | TRK007          | 2025-03-26    | 5           | 2           | 3           |
| 8          | 8          | 108         | 130.00 | 2025-03-28   | 8          | Diana Prince     | Themyscira     | Barry Allen    | Central City             | 4.5    | Pending    | TRK008          | 2025-03-27    | 6           | 2           | 3           |
| 9          | 9          | 109         | 45.00  | 2025-03-29   | 9          | Peter Parker     | 20 Queens St   | Mary Jane      | Brooklyn                 | 2.5    | Delivered  | TRK009          | 2025-03-28    | 7           | 2           | 3           |
| 10         | 10         | 110         | 70.00  | 2025-03-30   | 10         | Natasha Romanoff | Red Room       | Hawkeye        | Avengers Facility        | 8      | Delivered  | TRK010          | 2025-03-29    | 8           | 2           | 4           |
| 11         | 11         | 101         | 95.00  | 2025-03-30   | 11         | Clark Kent       | Smallville     | Lois Lane      | Metropolis               | 1      | In Transit | TRK011          | 2025-03-30    | 9           | 3           | 4           |
| 12         | 12         | 102         | 200.00 | 2025-03-31   | 12         | Thor Odinson     | Asgard         | Loki Laufeyson | Jotunheim                | 6.5    | Pending    | TRK012          | 2025-03-31    | 10          | 3           | 4           |
| 13         | 20         | 103         | 80.00  | 2025-03-20   | 20         | Ajay Kumar       | Delhi          | Vijay Singh    | Mumbai                   | 3      | Delivered  | TRK020          | 2025-03-20    | 2           | 3           | 5           |
| 14         | 21         | 104         | 55.00  | 2025-03-21   | 21         | Meera Shah       | Pune           | Rohan Patel    | Ahmedabad                | 4      | Delivered  | TRK021          | 2025-03-21    | 3           | 3           | 5           |
| 15         | 22         | 105         | 40.00  | 2025-03-30   | 22         | Harthik Raja     | Coimbatore     | Suresh Iyer    | Chennai                  | 2.5    | In Transit | TRK022          | 2025-03-30    | 4           | 1           | 6           |
| 16         | 23         | 106         | 65.00  | 2025-03-31   | 23         | Nisha Gupta      | Lucknow        | Arjun Reddy    | Hyderabad                | 5.5    | Pending    | TRK023          | 2025-03-31    | 5           | 1           | 6           |
| 17         | 24         | 107         | 95.00  | 2025-03-19   | 24         | Anand Sharma     | Bangalore      | Deepak Jain    | Kolkata                  | 3.2    | In Transit | TRK024          | 2025-03-19    | 6           | 2           | 6           |
| 18         | 25         | 108         | 110.00 | 2025-03-19   | 25         | Sita Devi        | Patna          | Ravi Kumar     | Jaipur                   | 2      | In Transit | TRK025          | 2025-03-19    | 7           | 2           | 7           |
| 19         | 26         | 109         | 120.00 | 2025-04-01   | 26         | Rahul Mehta      | Surat          | Geeta Vadav    | Goa                      | 4.5    | Pending    | TRK026          | 2025-04-01    | 8           | 2           | 7           |
| 20         | 27         | 110         | 105.00 | 2025-04-02   | 27         | Priya Sharma     | Nagpur         | Vikas Kumar    | Ranchi                   | 6      | In Transit | TRK027          | 2025-04-02    | 9           | 3           | 7           |
| 21         | 28         | 101         | 210.00 | 2025-04-03   | 28         | Rajesh Khanna    | Chandigarh     | Sundar Iyer    | Mysore                   | 1.5    | Delivered  | TRK028          | 2025-04-03    | 10          | 3           | 8           |
| 22         | 29         | 102         | 250.00 | 2025-04-04   | 29         | Akash Verma      | Agra           | Kiran Bedi     | Varanasi                 | 2.5    | Pending    | TRK029          | 2025-04-04    | 11          | 3           | 8           |
| 23         | 101        | 103         | 300.00 | 2025-03-20   | 101        | subramani        | wagappaar wast | saravana       | padi                     | 10     | In Transit | TRK001          | 2025-03-20    | NULL        | 3           | 8           |

23 rows in set (0.14 sec)

24. Retrieve Payments with Location Information

```
mysql> SELECT p.*, l.*
-> FROM payment p
-> INNER JOIN location l ON p.location_id = l.location_id;
```

| payment_id | courier_id | location_id | amount | payment_date | location_id | location_name | address                  |
|------------|------------|-------------|--------|--------------|-------------|---------------|--------------------------|
| 1          | 1          | 101         | 150.00 | 2025-03-21   | 101         | Chennai       | Anna Nagar, Chennai      |
| 11         | 11         | 101         | 95.00  | 2025-03-30   | 101         | Chennai       | Anna Nagar, Chennai      |
| 21         | 28         | 101         | 210.00 | 2025-04-03   | 101         | Chennai       | Anna Nagar, Chennai      |
| 2          | 2          | 102         | 75.00  | 2025-03-16   | 102         | Bangalore     | MG Road, Bangalore       |
| 12         | 12         | 102         | 200.00 | 2025-03-31   | 102         | Bangalore     | MG Road, Bangalore       |
| 22         | 29         | 102         | 250.00 | 2025-04-04   | 102         | Bangalore     | MG Road, Bangalore       |
| 3          | 3          | 103         | 200.00 | 2025-03-23   | 103         | Delhi         | Connaught Place, Delhi   |
| 13         | 20         | 103         | 80.00  | 2025-03-20   | 103         | Delhi         | Connaught Place, Delhi   |
| 23         | 101        | 103         | 300.00 | 2025-03-20   | 103         | Delhi         | Connaught Place, Delhi   |
| 4          | 4          | 104         | 90.00  | 2025-03-24   | 104         | Mumbai        | Marine Drive, Mumbai     |
| 14         | 21         | 104         | 55.00  | 2025-03-21   | 104         | Mumbai        | Marine Drive, Mumbai     |
| 5          | 5          | 105         | 50.00  | 2025-03-25   | 105         | Pune          | FC Road, Pune            |
| 15         | 22         | 105         | 40.00  | 2025-03-30   | 105         | Pune          | FC Road, Pune            |
| 6          | 6          | 106         | 110.00 | 2025-03-26   | 106         | Kolkata       | Park Street, Kolkata     |
| 16         | 23         | 106         | 65.00  | 2025-03-31   | 106         | Kolkata       | Park Street, Kolkata     |
| 7          | 7          | 107         | 60.00  | 2025-03-27   | 107         | Hyderabad     | Banjara Hills, Hyderabad |
| 17         | 24         | 107         | 95.00  | 2025-03-19   | 107         | Hyderabad     | Banjara Hills, Hyderabad |
| 8          | 8          | 108         | 130.00 | 2025-03-28   | 108         | Coimbatore    | Gandhipuram, Coimbatore  |
| 18         | 25         | 108         | 110.00 | 2025-03-19   | 108         | Coimbatore    | Gandhipuram, Coimbatore  |
| 9          | 9          | 109         | 45.00  | 2025-03-29   | 109         | Jaipur        | MI Road, Jaipur          |
| 19         | 26         | 109         | 120.00 | 2025-04-01   | 109         | Jaipur        | MI Road, Jaipur          |
| 10         | 10         | 110         | 70.00  | 2025-03-30   | 110         | Lucknow       | Hazratganj, Lucknow      |
| 20         | 27         | 110         | 105.00 | 2025-04-02   | 110         | Lucknow       | Hazratganj, Lucknow      |

23 rows in set (0.01 sec)

## 25. Retrieve Payments with Courier and Location Information

```
mysql> SELECT p.*, c.*, l.*
-> FROM payment p
-> INNER JOIN courier c ON p.courier_id = c.courier_id
-> INNER JOIN location l ON p.location_id = l.location_id;
```

| payment_id | courier_id | location_id | amount | payment_date | courier_id | sender_name   | sender_address | receiver_name  | receiver_address | weight | status     | tracking_number | delivery_date | customer_id | employee_id | location_id | location_id | location_name | a |
|------------|------------|-------------|--------|--------------|------------|---------------|----------------|----------------|------------------|--------|------------|-----------------|---------------|-------------|-------------|-------------|-------------|---------------|---|
| 1          | 1          | 101         | 150.00 | 2025-03-21   | 1          | Alice         | 123 Main St    | Bob            | 456 Elm St       | 2.5    | In Transit | TRK123456       | 2025-03-20    | NULL        | 1           | 1           | 101         | Chennai       | A |
| 11         | 11         | 101         | 95.00  | 2025-03-30   | 11         | Clark Kent    | Smallville     | Lois Lane      | Metropolis       | 1      | In Transit | TRK011          | 2025-03-30    | 9           | 3           | 4           | 101         | Chennai       | A |
| 21         | 28         | 101         | 210.00 | 2025-04-03   | 28         | Rajesh Khanna | Chandigarh     | Sundar Iyer    | Mysore           | 1.5    | Delivered  | TRK028          | 2025-04-03    | 10          | 3           | 8           | 101         | Chennai       | A |
| 2          | 2          | 102         | 75.00  | 2025-03-16   | 2          | Charlie       | 789 Oak St     | David          | 101 Pine St      | 1.8    | Delivered  | TRK789101       | 2025-03-15    | NULL        | 1           | 1           | 102         | Bangalore     | M |
| 12         | 12         | 102         | 200.00 | 2025-03-31   | 12         | Thor Odinson  | Asgard         | Loki Laufeyson | Jotunheim        | 6.5    | Pending    | TRK012          | 2025-03-31    | 10          | 3           | 4           | 102         | Bangalore     | M |
| 22         | 29         | 102         | 250.00 | 2025-04-04   | 29         | Akash Verma   | Agra           | Miran Bedi     | Varanasi         | 2.5    | Pending    | TRK029          | 2025-04-04    | 11          | 3           | 8           | 102         | Bangalore     | M |
| 3          | 3          | 103         | 200.00 | 2025-03-23   | 3          | manoj         | chennai        | jeeva          | elephant street  | 3.5    | Delivered  | TRK003          | 2025-03-22    | 1           | 1           | 1           | 103         | Delhi         | C |
| 13         | 20         | 103         | 80.00  | 2025-03-20   | 20         | Ajay Kumar    | Delhi          | Vijay Singh    | Mumbai           | 3      | Delivered  | TRK020          | 2025-03-20    | 2           | 3           | 5           | 103         | Delhi         | C |
| 23         | 101        | 103         | 300.00 | 2025-03-20   | 101        | subramani     | mogappair east | saravana       | padi             | 10     | In Transit | TRK001          | 2025-03-20    | NULL        | 3           | 8           | 103         | Delhi         | C |
| 4          | 4          | 104         | 90.00  | 2025-03-24   | 4          | Tom Hardy     | 56 Oak St      | Emma Watson    | 78 Elm Ave       | 2      | In Transit | TRK004          | 2025-03-23    | 2           | 1           | 2           | 104         | Mumbai        | M |
| 14         | 21         | 104         | 55.00  | 2025-03-21   | 21         | Meera Shah    | Pune           | Rohan Patel    | Ahmedabad        | 4      | Delivered  | TRK021          | 2025-03-21    | 3           | 3           | 5           | 104         | Mumbai        | M |
| 5          | 5          | 105         | 50.00  | 2025-03-25   | 5          | Nancy Drew    | 12 Cherry Ln   | David Smith    | 89 Cedar Rd      | 5      | Pending    | TRK005          | 2025-03-24    | 3           | 1           | 2           | 105         | Pune          | F |
| 15         | 22         | 105         | 40.00  | 2025-03-30   | 22         | Marthik Raja  | Coimbatore     | Suresh Iyer    | Chennai          | 2.5    | In Transit | TRK022          | 2025-03-30    | 4           | 1           | 6           | 105         | Pune          | F |
| 6          | 6          | 106         | 110.00 | 2025-03-26   | 6          | Steve Rogers  | 9 Captain St   | Tony Stark     | Stark Tower, NY  | 10.5   | Delivered  | TRK006          | 2025-03-25    | 4           | 2           | 2           | 106         | Kolkata       | P |
| 16         | 23         | 106         | 65.00  | 2025-03-31   | 23         | Nisha Gupta   | Lucknow        | Arjun Reddy    | Hyderabad        | 5.5    | Pending    | TRK023          | 2025-03-31    | 5           | 1           | 6           | 106         | Kolkata       | P |

## 26. List all payments with courier details

same as 23rd question

## 27. Total payments received for each courier

```
mysql> SELECT courier_id, SUM(amount) AS total_payments
-> FROM payment
-> GROUP BY courier_id;
```

| courier_id | total_payments |
|------------|----------------|
| 1          | 150.00         |
| 2          | 75.00          |
| 3          | 200.00         |
| 4          | 90.00          |
| 5          | 50.00          |
| 6          | 110.00         |
| 7          | 60.00          |
| 8          | 130.00         |
| 9          | 45.00          |
| 10         | 70.00          |
| 11         | 95.00          |
| 12         | 200.00         |
| 20         | 80.00          |
| 21         | 55.00          |
| 22         | 40.00          |
| 23         | 65.00          |
| 24         | 95.00          |
| 25         | 110.00         |
| 26         | 120.00         |
| 27         | 105.00         |
| 28         | 210.00         |
| 29         | 250.00         |
| 101        | 300.00         |

23 rows in set (0.02 sec)

28. List payments made on a specific date

```
mysql> SELECT * FROM payment WHERE payment_date = '2025-03-15';
Empty set (0.01 sec)
```

```
mysql> SELECT * FROM payment WHERE payment_date = '2025-03-21';
```

| payment_id | courier_id | location_id | amount | payment_date |
|------------|------------|-------------|--------|--------------|
| 1          | 1          | 101         | 150.00 | 2025-03-21   |
| 14         | 21         | 104         | 55.00  | 2025-03-21   |

2 rows in set (0.00 sec)

29. Get Courier Information for Each Payment

```
mysql> SELECT p.*, c.*
-> FROM payment p
-> LEFT JOIN courier c ON p.courier_id = c.courier_id;
```

| payment_id | courier_id | location_id | amount | payment_date | courier_id | sender_name      | sender_address | receiver_name  | receiver_address         | weight | status     | tracking_number | delivery_date | customer_id | employee_id | location_id |
|------------|------------|-------------|--------|--------------|------------|------------------|----------------|----------------|--------------------------|--------|------------|-----------------|---------------|-------------|-------------|-------------|
| 1          | 1          | 101         | 150.00 | 2025-03-21   | 1          | Alice            | 123 Main St    | Bob            | 456 Elm St               | 2.5    | In Transit | TRK123456       | 2025-03-28    | NULL        | 1           | 1           |
| 2          | 2          | 102         | 75.00  | 2025-03-16   | 2          | Charlie          | 789 Oak St     | David          | 101 Pine St              | 1.8    | Delivered  | TRK789101       | 2025-03-15    | NULL        | 1           | 1           |
| 3          | 3          | 103         | 200.00 | 2025-03-23   | 3          | Manoj            | chennai        | Jeeva          | elephant street          | 3.5    | Delivered  | TRK003          | 2025-03-22    | 1           | 1           | 1           |
| 4          | 4          | 104         | 90.00  | 2025-03-24   | 4          | Tom Hardy        | 56 Oak St      | Emma Watson    | 78 Elm Ave               | 2      | In Transit | TRK004          | 2025-03-23    | 2           | 1           | 2           |
| 5          | 5          | 105         | 50.00  | 2025-03-25   | 5          | Nancy Drew       | 12 Cherry Ln   | David Smith    | 89 Cedar Rd              | 5      | Pending    | TRK005          | 2025-03-20    | 3           | 1           | 2           |
| 6          | 6          | 106         | 110.00 | 2025-03-26   | 6          | Steve Rogers     | 9 Captain St   | Tony Stark     | Stark Tower, NY          | 10.5   | Delivered  | TRK006          | 2025-03-25    | 4           | 2           | 2           |
| 7          | 7          | 107         | 60.00  | 2025-03-27   | 7          | Bruce Wayne      | Wayne Manor    | Clark Kent     | Daily Planet, Metropolis | 7      | In Transit | TRK007          | 2025-03-26    | 5           | 2           | 3           |
| 8          | 8          | 108         | 130.00 | 2025-03-28   | 8          | Diana Prince     | Themyscira     | Barry Allen    | Central City             | 4.5    | Pending    | TRK008          | 2025-03-27    | 6           | 2           | 3           |
| 9          | 9          | 109         | 45.00  | 2025-03-29   | 9          | Peter Parker     | 20 Queens St   | Wary Jane      | Brooklyn                 | 2.5    | Delivered  | TRK009          | 2025-03-28    | 7           | 2           | 3           |
| 10         | 10         | 110         | 70.00  | 2025-03-30   | 10         | Katasha Romanoff | Red Room       | Hawkeye        | Avengers Facility        | 8      | Delivered  | TRK010          | 2025-03-29    | 8           | 2           | 4           |
| 11         | 11         | 101         | 95.00  | 2025-03-30   | 11         | Clark Kent       | Smallville     | Lois Lane      | Metropolis               | 1      | In Transit | TRK011          | 2025-03-30    | 9           | 3           | 4           |
| 12         | 12         | 102         | 200.00 | 2025-03-31   | 12         | Thor Odinson     | Asgard         | Loki Laufeyson | Jotunheim                | 6.5    | Pending    | TRK012          | 2025-03-31    | 10          | 3           | 4           |
| 13         | 20         | 103         | 80.00  | 2025-03-30   | 20         | Ajay Kumar       | Delhi          | Vijay Singh    | Mumbai                   | 3      | Delivered  | TRK020          | 2025-03-20    | 2           | 3           | 5           |
| 14         | 21         | 104         | 55.00  | 2025-03-21   | 21         | Meera Shah       | Pune           | Rohan Patel    | Ahmedabad                | 4      | Delivered  | TRK021          | 2025-03-21    | 3           | 3           | 5           |
| 15         | 22         | 105         | 40.00  | 2025-03-30   | 22         | Marthik Raja     | Coimbatore     | Suresh Iyer    | Chennai                  | 2.5    | In Transit | TRK022          | 2025-03-30    | 4           | 1           | 6           |
| 16         | 23         | 106         | 65.00  | 2025-03-31   | 23         | Nisha Gupta      | Lucknow        | Arjun Reddy    | Hyderabad                | 5.5    | Pending    | TRK023          | 2025-03-31    | 5           | 1           | 6           |
| 17         | 24         | 107         | 95.00  | 2025-03-19   | 24         | Anand Sharma     | Bangalore      | Deepak Jain    | Kolkata                  | 3.2    | In Transit | TRK024          | 2025-03-19    | 6           | 2           | 6           |
| 18         | 25         | 108         | 110.00 | 2025-03-19   | 25         | Sita Devi        | Patna          | Ravi Kumar     | Jaipur                   | 2      | In Transit | TRK025          | 2025-03-19    | 7           | 2           | 7           |
| 19         | 26         | 109         | 120.00 | 2025-04-01   | 26         | Rahul Mehta      | Surat          | Geeta Vadav    | Noida                    | 4.5    | Pending    | TRK026          | 2025-04-01    | 8           | 2           | 7           |
| 20         | 27         | 110         | 105.00 | 2025-04-02   | 27         | Priya Sharma     | Nagpur         | Vikas Kumar    | Ranchi                   | 6      | In Transit | TRK027          | 2025-04-02    | 9           | 3           | 7           |
| 21         | 28         | 101         | 210.00 | 2025-04-03   | 28         | Rajesh Khanna    | Chandigarh     | Sundar Iyer    | Mysore                   | 1.5    | Delivered  | TRK028          | 2025-04-03    | 10          | 3           | 8           |
| 22         | 29         | 102         | 250.00 | 2025-04-04   | 29         | Akash Verma      | Agre           | Kiran Bedi     | Varanasi                 | 2.5    | Pending    | TRK029          | 2025-04-04    | 11          | 3           | 8           |
| 23         | 101        | 103         | 300.00 | 2025-03-20   | 101        | Subramani        | mogappair west | saravana       | padi                     | 10     | In Transit | TRK001          | 2025-03-20    | NULL        | 3           | 8           |

23 rows in set (0.01 sec)

30. Get Payment Details with Location

```
mysql> SELECT p.*, l.*
-> FROM payment p
-> RIGHT JOIN location l ON p.location_id = l.location_id;
```

| payment_id | courier_id | location_id | amount | payment_date | location_id | location_name | address                  |
|------------|------------|-------------|--------|--------------|-------------|---------------|--------------------------|
| 1          | 1          | 101         | 150.00 | 2025-03-21   | 101         | Chennai       | Anna Nagar, Chennai      |
| 11         | 11         | 101         | 95.00  | 2025-03-30   | 101         | Chennai       | Anna Nagar, Chennai      |
| 21         | 28         | 101         | 210.00 | 2025-04-03   | 101         | Chennai       | Anna Nagar, Chennai      |
| 2          | 2          | 102         | 75.00  | 2025-03-16   | 102         | Bangalore     | MG Road, Bangalore       |
| 12         | 12         | 102         | 200.00 | 2025-03-31   | 102         | Bangalore     | MG Road, Bangalore       |
| 22         | 29         | 102         | 250.00 | 2025-04-04   | 102         | Bangalore     | MG Road, Bangalore       |
| 3          | 3          | 103         | 200.00 | 2025-03-23   | 103         | Delhi         | Connaught Place, Delhi   |
| 13         | 20         | 103         | 80.00  | 2025-03-20   | 103         | Delhi         | Connaught Place, Delhi   |
| 23         | 101        | 103         | 300.00 | 2025-03-20   | 103         | Delhi         | Connaught Place, Delhi   |
| 4          | 4          | 104         | 90.00  | 2025-03-24   | 104         | Mumbai        | Marine Drive, Mumbai     |
| 14         | 21         | 104         | 55.00  | 2025-03-21   | 104         | Mumbai        | Marine Drive, Mumbai     |
| 5          | 5          | 105         | 50.00  | 2025-03-25   | 105         | Pune          | FC Road, Pune            |
| 15         | 22         | 105         | 40.00  | 2025-03-30   | 105         | Pune          | FC Road, Pune            |
| 6          | 6          | 106         | 110.00 | 2025-03-26   | 106         | Kolkata       | Park Street, Kolkata     |
| 16         | 23         | 106         | 65.00  | 2025-03-31   | 106         | Kolkata       | Park Street, Kolkata     |
| 7          | 7          | 107         | 60.00  | 2025-03-27   | 107         | Hyderabad     | Banjara Hills, Hyderabad |
| 17         | 24         | 107         | 95.00  | 2025-03-19   | 107         | Hyderabad     | Banjara Hills, Hyderabad |
| 8          | 8          | 108         | 130.00 | 2025-03-28   | 108         | Coimbatore    | Gandhipuram, Coimbatore  |
| 18         | 25         | 108         | 110.00 | 2025-03-19   | 108         | Coimbatore    | Gandhipuram, Coimbatore  |
| 9          | 9          | 109         | 45.00  | 2025-03-29   | 109         | Jaipur        | MI Road, Jaipur          |
| 19         | 26         | 109         | 120.00 | 2025-04-01   | 109         | Jaipur        | MI Road, Jaipur          |
| 10         | 10         | 110         | 70.00  | 2025-03-30   | 110         | Lucknow       | Hazratganj, Lucknow      |
| 20         | 27         | 110         | 105.00 | 2025-04-02   | 110         | Lucknow       | Hazratganj, Lucknow      |

23 rows in set (0.01 sec)

### 31. Calculating Total Payments for Each Courier

```
mysql> SELECT courier_id, SUM(amount) AS total_payments
-> FROM payment
-> GROUP BY courier_id;
```

| courier_id | total_payments |
|------------|----------------|
| 1          | 150.00         |
| 2          | 75.00          |
| 3          | 200.00         |
| 4          | 90.00          |
| 5          | 50.00          |
| 6          | 110.00         |
| 7          | 60.00          |
| 8          | 130.00         |
| 9          | 45.00          |
| 10         | 70.00          |
| 11         | 95.00          |
| 12         | 200.00         |
| 20         | 80.00          |
| 21         | 55.00          |
| 22         | 40.00          |
| 23         | 65.00          |
| 24         | 95.00          |
| 25         | 110.00         |
| 26         | 120.00         |
| 27         | 105.00         |
| 28         | 210.00         |
| 29         | 250.00         |
| 101        | 300.00         |

23 rows in set (0.02 sec)

### 32. List Payments Within a Date Range

```
mysql> SELECT * FROM payment WHERE payment_date BETWEEN '2025-03-01' AND '2025-03-31';
```

| payment_id | courier_id | location_id | amount | payment_date |
|------------|------------|-------------|--------|--------------|
| 1          | 1          | 101         | 150.00 | 2025-03-21   |
| 2          | 2          | 102         | 75.00  | 2025-03-16   |
| 3          | 3          | 103         | 200.00 | 2025-03-23   |
| 4          | 4          | 104         | 90.00  | 2025-03-24   |
| 5          | 5          | 105         | 50.00  | 2025-03-25   |
| 6          | 6          | 106         | 110.00 | 2025-03-26   |
| 7          | 7          | 107         | 60.00  | 2025-03-27   |
| 8          | 8          | 108         | 130.00 | 2025-03-28   |
| 9          | 9          | 109         | 45.00  | 2025-03-29   |
| 10         | 10         | 110         | 70.00  | 2025-03-30   |
| 11         | 11         | 101         | 95.00  | 2025-03-30   |
| 12         | 12         | 102         | 200.00 | 2025-03-31   |
| 13         | 20         | 103         | 80.00  | 2025-03-20   |
| 14         | 21         | 104         | 55.00  | 2025-03-21   |
| 15         | 22         | 105         | 40.00  | 2025-03-30   |
| 16         | 23         | 106         | 65.00  | 2025-03-31   |
| 17         | 24         | 107         | 95.00  | 2025-03-19   |
| 18         | 25         | 108         | 110.00 | 2025-03-19   |
| 23         | 101        | 103         | 300.00 | 2025-03-20   |

19 rows in set (0.01 sec)

33. Retrieve a list of all users and their corresponding courier records, including cases where there are no matches on either side

```
mysql> SELECT u.*, c.*
-> FROM users u
-> LEFT JOIN courier c ON u.customer_id = c.customer_id
-> UNION
-> SELECT u.*, c.*
-> FROM users u
-> RIGHT JOIN courier c ON u.customer_id = c.customer_id;
```

| customer_id | customer_name    | customer_address | phone_number | courier_id | sender_name      | sender_address | receiver_name  | receiver_address         | weight | status     | tracking_number | delivery_date | customer_id | employee_id | location_id |
|-------------|------------------|------------------|--------------|------------|------------------|----------------|----------------|--------------------------|--------|------------|-----------------|---------------|-------------|-------------|-------------|
| 1           | Manoj            | Chennai          | 9876543210   | 3          | manoj            | chennai        | jeeva          | elephant street          | 3.5    | Delivered  | TRK003          | 2025-03-22    | 1           | 1           | 1           |
| 1           | Manoj            | Chennai          | 9876543210   | 14         | manoj            | chennai        | seetha         | bharathi street          | 4.5    | In Transit | TRK014          | 2025-03-25    | 1           | 3           | 5           |
| 2           | Tom Hardy        | 56 Oak St        | 8765432109   | 4          | Tom Hardy        | 56 Oak St      | Emma Watson    | 78 Els Ave               | 2      | In Transit | TRK004          | 2025-03-23    | 2           | 1           | 2           |
| 2           | Tom Hardy        | 56 Oak St        | 8765432109   | 20         | Ajay Kumar       | Delhi          | Vijay Singh    | Mumbai                   | 3      | Delivered  | TRK020          | 2025-03-20    | 2           | 3           | 5           |
| 3           | Nancy Drew       | 12 Cherry Ln     | 7654321098   | 5          | Nancy Drew       | 12 Cherry Ln   | David Smith    | 89 Cedar Rd              | 5      | Pending    | TRK005          | 2025-03-24    | 3           | 1           | 2           |
| 3           | Nancy Drew       | 12 Cherry Ln     | 7654321098   | 21         | Meera Shah       | Pune           | Rohan Patel    | Ahmedabad                | 4      | Delivered  | TRK021          | 2025-03-21    | 3           | 3           | 5           |
| 4           | Steve Rogers     | 9 Captain St     | 6543210987   | 6          | Steve Rogers     | 9 Captain St   | Tony Stark     | Stark Tower, NY          | 10.5   | Delivered  | TRK006          | 2025-03-25    | 4           | 2           | 2           |
| 4           | Steve Rogers     | 9 Captain St     | 6543210987   | 22         | Warthik Raja     | Coimbatore     | Suresh Iyer    | Chennai                  | 2.5    | In Transit | TRK022          | 2025-03-30    | 4           | 1           | 6           |
| 5           | Bruce Wayne      | Wayne Manor      | 5432109876   | 7          | Bruce Wayne      | Wayne Manor    | Clark Kent     | Daily Planet, Metropolis | 7      | In Transit | TRK007          | 2025-03-26    | 5           | 2           | 3           |
| 5           | Bruce Wayne      | Wayne Manor      | 5432109876   | 23         | Wisha Gupta      | Lucknow        | Arjun Reddy    | Hyderabad                | 5.5    | Pending    | TRK023          | 2025-03-31    | 5           | 1           | 6           |
| 6           | Diana Prince     | Themyscira       | 4321098765   | 8          | Diana Prince     | Themyscira     | Barry Allen    | Central City             | 4.5    | Pending    | TRK008          | 2025-03-27    | 6           | 2           | 3           |
| 6           | Diana Prince     | Themyscira       | 4321098765   | 24         | Anand Sharma     | Bangalore      | Deepak Jain    | Kolkata                  | 3.2    | In Transit | TRK024          | 2025-03-19    | 6           | 2           | 6           |
| 7           | Peter Parker     | 20 Queens St     | 3210987654   | 9          | Peter Parker     | 20 Queens St   | Mary Jane      | Brooklyn                 | 2.5    | Delivered  | TRK009          | 2025-03-28    | 7           | 2           | 3           |
| 7           | Peter Parker     | 20 Queens St     | 3210987654   | 25         | Sita Devi        | Patna          | Ravi Kumar     | Jaipur                   | 2      | In Transit | TRK025          | 2025-03-19    | 7           | 2           | 7           |
| 8           | Natasha Romanoff | Red Room         | 2109876543   | 10         | Natasha Romanoff | Red Room       | Hawkeye        | Avengers Facility        | 8      | Delivered  | TRK010          | 2025-03-29    | 8           | 2           | 4           |
| 8           | Natasha Romanoff | Red Room         | 2109876543   | 26         | Rahul Mehta      | Surat          | Geeta Yadav    | Noida                    | 4.5    | Pending    | TRK026          | 2025-04-01    | 8           | 2           | 7           |
| 9           | Clark Kent       | Smallville       | 1098765432   | 11         | Clark Kent       | Smallville     | Lois Lane      | Metropolis               | 1      | In Transit | TRK011          | 2025-03-30    | 9           | 3           | 4           |
| 9           | Clark Kent       | Smallville       | 1098765432   | 27         | Priya Sharma     | Bangpur        | Vikesh Kumar   | Ranchi                   | 6      | In Transit | TRK027          | 2025-04-02    | 9           | 3           | 7           |
| 10          | Thor Odinson     | Asgard           | 0987654321   | 12         | Thor Odinson     | Asgard         | Loki Laufeyson | Jotunheim                | 6.5    | Pending    | TRK012          | 2025-03-31    | 10          | 3           | 4           |
| 10          | Thor Odinson     | Asgard           | 0987654321   | 28         | Rajesh Khanna    | Chandigarh     | Sundar Iyer    | Mysore                   | 1.5    | Delivered  | TRK028          | 2025-04-03    | 10          | 3           | 8           |
| 11          | Akash Verma      | Agra             | 8765432101   | 29         | Akash Verma      | Agra           | Kiran Bedi     | Varanasi                 | 2.5    | Pending    | TRK029          | 2025-04-04    | 11          | 3           | 8           |
| 12          | Ajay Kumar       | Delhi            | 9876543201   | NULL       | NULL             | NULL           | NULL           | NULL                     | NULL   | NULL       | NULL            | NULL          | NULL        | NULL        | NULL        |
| 13          | Meera Shah       | Pune             | 8765432190   | NULL       | NULL             | NULL           | NULL           | NULL                     | NULL   | NULL       | NULL            | NULL          | NULL        | NULL        | NULL        |
| 14          | Warthik Raja     | Coimbatore       | 7654321089   | NULL       | NULL             | NULL           | NULL           | NULL                     | NULL   | NULL       | NULL            | NULL          | NULL        | NULL        | NULL        |
| 15          | Wisha Gupta      | Lucknow          | 6543210988   | NULL       | NULL             | NULL           | NULL           | NULL                     | NULL   | NULL       | NULL            | NULL          | NULL        | NULL        | NULL        |
| 16          | Anand Sharma     | Bangalore        | 5432109877   | NULL       | NULL             | NULL           | NULL           | NULL                     | NULL   | NULL       | NULL            | NULL          | NULL        | NULL        | NULL        |
| 17          | Sita Devi        | Patna            | 4321098766   | NULL       | NULL             | NULL           | NULL           | NULL                     | NULL   | NULL       | NULL            | NULL          | NULL        | NULL        | NULL        |
| 18          | Rahul Mehta      | Surat            | 3210987655   | NULL       | NULL             | NULL           | NULL           | NULL                     | NULL   | NULL       | NULL            | NULL          | NULL        | NULL        | NULL        |
| 19          | Priya Sharma     | Bangpur          | 2109876544   | NULL       | NULL             | NULL           | NULL           | NULL                     | NULL   | NULL       | NULL            | NULL          | NULL        | NULL        | NULL        |
| 20          | Rajesh Khanna    | Chandigarh       | 1098765433   | NULL       | NULL             | NULL           | NULL           | NULL                     | NULL   | NULL       | NULL            | NULL          | NULL        | NULL        | NULL        |
| NULL        | NULL             | NULL             | NULL         | 1          | Alice            | 123 Main St    | Bob            | 456 Elm St               | 2.5    | In Transit | TRK123456       | 2025-03-20    | NULL        | 1           | 1           |
| NULL        | NULL             | NULL             | NULL         | 2          | Charlie          | 789 Oak St     | David          | 101 Pine St              | 1.8    | Delivered  | TRK789101       | 2025-03-15    | NULL        | 1           | 1           |
| NULL        | NULL             | NULL             | NULL         | 101        | subramani        | mogappair west | saravana       | padai                    | 10     | In Transit | TRK001          | 2025-03-20    | NULL        | 3           | 8           |

33 rows in set (0.00 sec)

34. Retrieve a list of all couriers and their corresponding services, including cases where there are no matches on either side



```
mysql> SELECT c.*, s.*
-> FROM courier c
-> LEFT JOIN services s ON c.service_id = s.service_id
-> UNION
-> SELECT c.*, s.*
-> FROM courier c
-> RIGHT JOIN services s ON c.service_id = s.service_id;
```

| courier_id   | sender_name      | sender_address | receiver_name  | receiver_address         | weight | status     | tracking_number | delivery_date | customer_id | employee_id | location_id | service_id | se   |
|--------------|------------------|----------------|----------------|--------------------------|--------|------------|-----------------|---------------|-------------|-------------|-------------|------------|------|
| service_name | service_type     | cost           |                |                          |        |            |                 |               |             |             |             |            |      |
| 1            | Alice            | 123 Main St    | Bob            | 456 Elm St               | 2.5    | In Transit | TRK123456       | 2025-03-20    |             | 1           | 1           |            |      |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               | NULL        |             |             |            |      |
| 2            | Charlie          | 789 Oak St     | David          | 101 Pine St              | 1.8    | Delivered  | TRK789101       | 2025-03-15    |             | 1           | 1           |            |      |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               | NULL        |             |             |            |      |
| 3            | manoj            | chennai        | jeeva          | elephant street          | 3.5    | Delivered  | TRK003          | 2025-03-22    | 1           | 1           |             |            |      |
| 1            | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 4            | Tom Hardy        | 56 Oak St      | Emma Watson    | 78 Elm Ave               | 2      | In Transit | TRK004          | 2025-03-23    |             | 2           | 1           | 2          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 5            | Nancy Drew       | 12 Cherry Ln   | David Smith    | 89 Cedar Rd              | 5      | Pending    | TRK005          | 2025-03-24    |             | 3           | 1           | 2          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 6            | Steve Rogers     | 9 Captain St   | Tony Stark     | Stark Tower, NY          | 10.5   | Delivered  | TRK006          | 2025-03-25    |             | 4           | 2           | 2          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 7            | Bruce Wayne      | Wayne Manor    | Clark Kent     | Daily Planet, Metropolis | 7      | In Transit | TRK007          | 2025-03-26    |             | 5           | 2           | 3          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 8            | Diana Prince     | Themyscira     | Barry Allen    | Central City             | 4.5    | Pending    | TRK008          | 2025-03-27    |             | 6           | 2           | 3          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 9            | Peter Parker     | 20 Queens St   | Mary Jane      | Brooklyn                 | 2.5    | Delivered  | TRK009          | 2025-03-28    |             | 7           | 2           | 3          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 10           | Natasha Romanoff | Red Room       | Hawkeye        | Avengers Facility        | 8      | Delivered  | TRK010          | 2025-03-29    |             | 8           | 2           | 4          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 11           | Clark Kent       | Smallville     | Lois Lane      | Metropolis               | 1      | In Transit | TRK011          | 2025-03-30    |             | 9           | 3           | 4          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 12           | Thor Odinson     | Asgard         | Loki Laufeyson | Jotunheim                | 6.5    | Pending    | TRK012          | 2025-03-31    |             | 10          | 3           | 4          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 14           | manoj            | chennai        | swetha         | bharathi street          | 4.5    | In Transit | TRK014          | 2025-03-25    |             | 1           | 3           | 5          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 20           | Ajay Kumar       | Delhi          | Vijay Singh    | Mumbai                   | 3      | Delivered  | TRK020          | 2025-03-20    |             | 2           | 3           | 5          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 21           | Meera Shah       | Pune           | Rohan Patel    | Ahmedabad                | 4      | Delivered  | TRK021          | 2025-03-21    |             | 3           | 3           | 5          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 22           | Karthik Raja     | Coimbatore     | Suresh Iyer    | Chennai                  | 2.5    | In Transit | TRK022          | 2025-03-30    |             | 4           | 1           | 6          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 23           | Nisha Gupta      | Lucknow        | Arjun Reddy    | Hyderabad                | 5.5    | Pending    | TRK023          | 2025-03-31    |             | 5           | 1           | 6          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 24           | Anand Sharma     | Bangalore      | Deepak Jain    | Kolkata                  | 3.2    | In Transit | TRK024          | 2025-03-19    |             | 6           | 2           | 6          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 25           | Sita Devi        | Patna          | Ravi Kumar     | Jaipur                   | 2      | In Transit | TRK025          | 2025-03-19    |             | 7           | 2           | 7          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 26           | Rahul Mehta      | Surat          | Geeta Vadav    | Noida                    | 4.5    | Pending    | TRK026          | 2025-04-01    |             | 8           | 2           | 7          | NULL |
| NULL         | NULL             | NULL           | NULL           | NULL                     |        |            |                 |               |             |             |             |            |      |
| 27           | Priya Sharma     | Nagpur         | Vikas Kumar    | Ranchi                   | 6      | In Transit | TRK027          | 2025-04-02    |             | 9           | 3           | 7          | NULL |

35. . Retrieve a list of all employees and their corresponding payments, including cases where there are no matches on either side

```
mysql> SELECT e.*, p.*
-> FROM employee e
-> LEFT JOIN payment p ON e.employee_id = p.employee_id
-> UNION
-> SELECT e.*, p.*
-> FROM employee e
-> RIGHT JOIN payment p ON e.employee_id = p.employee_id;
```

| employee_id | name        | email                   | contact_number | role               | salary   | payment_id | courier_id | location_id | amount | payment_date | employee_id |
|-------------|-------------|-------------------------|----------------|--------------------|----------|------------|------------|-------------|--------|--------------|-------------|
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 22         | 29         | 102         | 250.00 | 2025-04-04   | 1           |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 20         | 27         | 110         | 105.00 | 2025-04-02   | 1           |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 18         | 25         | 108         | 110.00 | 2025-03-19   | 1           |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 16         | 23         | 106         | 65.00  | 2025-03-31   | 1           |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 14         | 21         | 104         | 55.00  | 2025-03-21   | 1           |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 12         | 19         | 102         | 200.00 | 2025-03-31   | 1           |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 10         | 17         | 110         | 70.00  | 2025-03-30   | 1           |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 8          | 15         | 108         | 130.00 | 2025-03-28   | 1           |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 6          | 13         | 106         | 110.00 | 2025-03-26   | 1           |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 4          | 11         | 104         | 90.00  | 2025-03-24   | 1           |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 2          | 9          | 102         | 75.00  | 2025-03-16   | 1           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 23         | 101        | 103         | 300.00 | 2025-03-20   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 21         | 99         | 101         | 210.00 | 2025-04-03   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 19         | 97         | 101         | 120.00 | 2025-04-01   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 17         | 95         | 107         | 95.00  | 2025-03-19   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 15         | 93         | 105         | 40.00  | 2025-03-30   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 13         | 91         | 103         | 80.00  | 2025-03-20   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 11         | 89         | 101         | 95.00  | 2025-03-30   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 9          | 87         | 109         | 45.00  | 2025-03-29   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 7          | 85         | 107         | 60.00  | 2025-03-27   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 5          | 83         | 105         | 50.00  | 2025-03-25   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 3          | 81         | 103         | 200.00 | 2025-03-23   | 2           |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 1          | 79         | 101         | 150.00 | 2025-03-21   | 2           |
| 3           | jeeva       | rdj@example.com         | 9876543212     | Senior Engineer    | 50000.00 | NULL       | NULL       | NULL        | NULL   | NULL         | NULL        |
| 4           | mothesh     | chris.evans@example.com | 9876543213     | Delivery Executive | 35000.00 | NULL       | NULL       | NULL        | NULL   | NULL         | NULL        |
| 5           | andrew      | scarlett.j@example.com  | 9876543214     | HR Manager         | 55000.00 | NULL       | NULL       | NULL        | NULL   | NULL         | NULL        |
| 6           | manoj       | tom.h@example.com       | 9876543215     | Junior Engineer    | 40000.00 | NULL       | NULL       | NULL        | NULL   | NULL         | NULL        |

36. List all users and all courier services, showing all possible combinations.

```
mysql> SELECT * FROM users CROSS JOIN services;
```

| customer_id | customer_name | customer_address | phone_number | service_id | service_name           | service_type      | cost   |
|-------------|---------------|------------------|--------------|------------|------------------------|-------------------|--------|
| 1           | Manoj         | Chennai          | 9876543210   | 10         | Return Service         | Reverse Logistics | 50.00  |
| 1           | Manoj         | Chennai          | 9876543210   | 9          | Live Package Updates   | Tracking          | 30.00  |
| 1           | Manoj         | Chennai          | 9876543210   | 8          | Heavy Load Transport   | Freight           | 450.00 |
| 1           | Manoj         | Chennai          | 9876543210   | 7          | Warehouse Storage      | Logistics         | 300.00 |
| 1           | Manoj         | Chennai          | 9876543210   | 6          | Same-Day Delivery      | Shipping          | 200.00 |
| 1           | Manoj         | Chennai          | 9876543210   | 5          | Insurance Coverage     | Security          | 75.00  |
| 1           | Manoj         | Chennai          | 9876543210   | 4          | Package Tracking       | Tracking          | 20.00  |
| 1           | Manoj         | Chennai          | 9876543210   | 3          | International Shipping | Shipping          | 500.00 |
| 1           | Manoj         | Chennai          | 9876543210   | 2          | Standard Delivery      | Shipping          | 100.00 |
| 1           | Manoj         | Chennai          | 9876543210   | 1          | Express Delivery       | Shipping          | 150.00 |
| 2           | Tom Hardy     | 56 Oak St        | 8765432109   | 10         | Return Service         | Reverse Logistics | 50.00  |
| 2           | Tom Hardy     | 56 Oak St        | 8765432109   | 9          | Live Package Updates   | Tracking          | 30.00  |
| 2           | Tom Hardy     | 56 Oak St        | 8765432109   | 8          | Heavy Load Transport   | Freight           | 450.00 |
| 2           | Tom Hardy     | 56 Oak St        | 8765432109   | 7          | Warehouse Storage      | Logistics         | 300.00 |
| 2           | Tom Hardy     | 56 Oak St        | 8765432109   | 6          | Same-Day Delivery      | Shipping          | 200.00 |
| 2           | Tom Hardy     | 56 Oak St        | 8765432109   | 5          | Insurance Coverage     | Security          | 75.00  |
| 2           | Tom Hardy     | 56 Oak St        | 8765432109   | 4          | Package Tracking       | Tracking          | 20.00  |
| 2           | Tom Hardy     | 56 Oak St        | 8765432109   | 3          | International Shipping | Shipping          | 500.00 |
| 2           | Tom Hardy     | 56 Oak St        | 8765432109   | 2          | Standard Delivery      | Shipping          | 100.00 |
| 2           | Tom Hardy     | 56 Oak St        | 8765432109   | 1          | Express Delivery       | Shipping          | 150.00 |
| 3           | Nancy Drew    | 12 Cherry Ln     | 7654321098   | 10         | Return Service         | Reverse Logistics | 50.00  |
| 3           | Nancy Drew    | 12 Cherry Ln     | 7654321098   | 9          | Live Package Updates   | Tracking          | 30.00  |
| 3           | Nancy Drew    | 12 Cherry Ln     | 7654321098   | 8          | Heavy Load Transport   | Freight           | 450.00 |
| 3           | Nancy Drew    | 12 Cherry Ln     | 7654321098   | 7          | Warehouse Storage      | Logistics         | 300.00 |
| 3           | Nancy Drew    | 12 Cherry Ln     | 7654321098   | 6          | Same-Day Delivery      | Shipping          | 200.00 |
| 3           | Nancy Drew    | 12 Cherry Ln     | 7654321098   | 5          | Insurance Coverage     | Security          | 75.00  |
| 3           | Nancy Drew    | 12 Cherry Ln     | 7654321098   | 4          | Package Tracking       | Tracking          | 20.00  |
| 3           | Nancy Drew    | 12 Cherry Ln     | 7654321098   | 3          | International Shipping | Shipping          | 500.00 |

37. . List all employees and all locations, showing all possible combinations:

```
mysql> SELECT * FROM employee CROSS JOIN location;
```

| employee_id | name        | email                   | contact_number | role               | salary   | location_id | location_name | address                |
|-------------|-------------|-------------------------|----------------|--------------------|----------|-------------|---------------|------------------------|
| 6           | manoj       | tom.h@example.com       | 9876543215     | Junior Engineer    | 40000.00 | 101         | Chennai       | Anna Nagar, Chennai    |
| 5           | andrew      | scarlett.j@example.com  | 9876543214     | HR Manager         | 55000.00 | 101         | Chennai       | Anna Nagar, Chennai    |
| 4           | mothesh     | chris.evans@example.com | 9876543213     | Delivery Executive | 35000.00 | 101         | Chennai       | Anna Nagar, Chennai    |
| 3           | jeeva       | rdj@example.com         | 9876543212     | Senior Engineer    | 50000.00 | 101         | Chennai       | Anna Nagar, Chennai    |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 101         | Chennai       | Anna Nagar, Chennai    |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 101         | Chennai       | Anna Nagar, Chennai    |
| 6           | manoj       | tom.h@example.com       | 9876543215     | Junior Engineer    | 40000.00 | 102         | Bangalore     | MG Road, Bangalore     |
| 5           | andrew      | scarlett.j@example.com  | 9876543214     | HR Manager         | 55000.00 | 102         | Bangalore     | MG Road, Bangalore     |
| 4           | mothesh     | chris.evans@example.com | 9876543213     | Delivery Executive | 35000.00 | 102         | Bangalore     | MG Road, Bangalore     |
| 3           | jeeva       | rdj@example.com         | 9876543212     | Senior Engineer    | 50000.00 | 102         | Bangalore     | MG Road, Bangalore     |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 102         | Bangalore     | MG Road, Bangalore     |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 102         | Bangalore     | MG Road, Bangalore     |
| 6           | manoj       | tom.h@example.com       | 9876543215     | Junior Engineer    | 40000.00 | 103         | Delhi         | Connaught Place, Delhi |
| 5           | andrew      | scarlett.j@example.com  | 9876543214     | HR Manager         | 55000.00 | 103         | Delhi         | Connaught Place, Delhi |
| 4           | mothesh     | chris.evans@example.com | 9876543213     | Delivery Executive | 35000.00 | 103         | Delhi         | Connaught Place, Delhi |
| 3           | jeeva       | rdj@example.com         | 9876543212     | Senior Engineer    | 50000.00 | 103         | Delhi         | Connaught Place, Delhi |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 103         | Delhi         | Connaught Place, Delhi |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 103         | Delhi         | Connaught Place, Delhi |
| 6           | manoj       | tom.h@example.com       | 9876543215     | Junior Engineer    | 40000.00 | 104         | Mumbai        | Marine Drive, Mumbai   |
| 5           | andrew      | scarlett.j@example.com  | 9876543214     | HR Manager         | 55000.00 | 104         | Mumbai        | Marine Drive, Mumbai   |
| 4           | mothesh     | chris.evans@example.com | 9876543213     | Delivery Executive | 35000.00 | 104         | Mumbai        | Marine Drive, Mumbai   |
| 3           | jeeva       | rdj@example.com         | 9876543212     | Senior Engineer    | 50000.00 | 104         | Mumbai        | Marine Drive, Mumbai   |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 104         | Mumbai        | Marine Drive, Mumbai   |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 104         | Mumbai        | Marine Drive, Mumbai   |
| 6           | manoj       | tom.h@example.com       | 9876543215     | Junior Engineer    | 40000.00 | 105         | Pune          | FC Road, Pune          |
| 5           | andrew      | scarlett.j@example.com  | 9876543214     | HR Manager         | 55000.00 | 105         | Pune          | FC Road, Pune          |
| 4           | mothesh     | chris.evans@example.com | 9876543213     | Delivery Executive | 35000.00 | 105         | Pune          | FC Road, Pune          |
| 3           | jeeva       | rdj@example.com         | 9876543212     | Senior Engineer    | 50000.00 | 105         | Pune          | FC Road, Pune          |
| 2           | Johnny Depp | johnny.depp@example.com | 9876543211     | Delivery Executive | 35000.00 | 105         | Pune          | FC Road, Pune          |
| 1           | Subramani   | bvineeth2108@gmail.com  | 9876543210     | Manager            | 60000.00 | 105         | Pune          | FC Road, Pune          |

38. Retrieve a list of couriers and their corresponding sender information (if available)

```
mysql> SELECT courier_id, sender_name, sender_address FROM courier
```

| courier_id | sender_name      | sender_address |
|------------|------------------|----------------|
| 1          | Alice            | 123 Main St    |
| 2          | Charlie          | 789 Oak St     |
| 3          | manoj            | chennai        |
| 4          | Tom Hardy        | 56 Oak St      |
| 5          | Nancy Drew       | 12 Cherry Ln   |
| 6          | Steve Rogers     | 9 Captain St   |
| 7          | Bruce Wayne      | Wayne Manor    |
| 8          | Diana Prince     | Themyscira     |
| 9          | Peter Parker     | 20 Queens St   |
| 10         | Natasha Romanoff | Red Room       |
| 11         | Clark Kent       | Smallville     |
| 12         | Thor Odinson     | Asgard         |
| 14         | manoj            | chennai        |
| 20         | Ajay Kumar       | Delhi          |
| 21         | Meera Shah       | Pune           |
| 22         | Karthik Raja     | Coimbatore     |
| 23         | Nisha Gupta      | Lucknow        |
| 24         | Anand Sharma     | Bangalore      |
| 25         | Sita Devi        | Patna          |
| 26         | Rahul Mehta      | Surat          |
| 27         | Priya Sharma     | Nagpur         |
| 28         | Rajesh Khanna    | Chandigarh     |
| 29         | Akash Verma      | Agra           |
| 101        | subramani        | mogappair wast |

24 rows in set (0.00 sec)

39. Retrieve a list of couriers and their corresponding receiver information (if available):



```
mysql> SELECT courier_id, receiver_name, receiver_address FROM courier;
```

| courier_id | receiver_name  | receiver_address         |
|------------|----------------|--------------------------|
| 1          | Bob            | 456 Elm St               |
| 2          | David          | 101 Pine St              |
| 3          | jeeva          | elephant street          |
| 4          | Emma Watson    | 78 Elm Ave               |
| 5          | David Smith    | 89 Cedar Rd              |
| 6          | Tony Stark     | Stark Tower, NY          |
| 7          | Clark Kent     | Daily Planet, Metropolis |
| 8          | Barry Allen    | Central City             |
| 9          | Mary Jane      | Brooklyn                 |
| 10         | Hawkeye        | Avengers Facility        |
| 11         | Lois Lane      | Metropolis               |
| 12         | Loki Laufeyson | Jotunheim                |
| 14         | swetha         | bharathi street          |
| 20         | Vijay Singh    | Mumbai                   |
| 21         | Rohan Patel    | Ahmedabad                |
| 22         | Suresh Iyer    | Chennai                  |
| 23         | Arjun Reddy    | Hyderabad                |
| 24         | Deepak Jain    | Kolkata                  |
| 25         | Ravi Kumar     | Jaipur                   |
| 26         | Geeta Yadav    | Noida                    |
| 27         | Vikas Kumar    | Ranchi                   |
| 28         | Sundar Iyer    | Mysore                   |
| 29         | Kiran Bedi     | Varanasi                 |
| 101        | saravana       | padi                     |

24 rows in set (0.00 sec)

40. Retrieve a list of couriers along with the courier service details (if available):

```
mysql> SELECT c.*, s.*
-> FROM courier c
-> LEFT JOIN services s ON c.service_id = s.service_id;
```

| courier_id   | sender_name      | sender_address | receiver_name  | receiver_address         | weight | status     | tracking_number | delivery_date | customer_id | employee_id | location_id | service_id | service_id | service_name | s |
|--------------|------------------|----------------|----------------|--------------------------|--------|------------|-----------------|---------------|-------------|-------------|-------------|------------|------------|--------------|---|
| service_type | cost             |                |                |                          |        |            |                 |               |             |             |             |            |            |              |   |
| 1            | Alice            | 123 Main St    | Bob            | 456 Elm St               | 2.5    | In Transit | TRK123456       | 2025-03-20    |             |             | 1           |            |            |              |   |
| 2            | Charlie          | 789 Oak St     | David          | 101 Pine St              | 1.8    | Delivered  | TRK789101       | 2025-03-15    |             |             | 1           |            |            |              |   |
| 3            | manoj            | chennai        | jeeva          | elephant street          | 3.5    | Delivered  | TRK003          | 2025-03-22    |             | 1           | 1           |            |            |              |   |
| 4            | Tom Hardy        | 56 Oak St      | Emma Watson    | 78 Elm Ave               | 2      | In Transit | TRK004          | 2025-03-23    |             | 2           | 1           |            |            |              |   |
| 5            | Nancy Drew       | 12 Cherry Ln   | David Smith    | 89 Cedar Rd              | 5      | Pending    | TRK005          | 2025-03-24    |             | 3           | 1           |            |            |              |   |
| 6            | Steve Rogers     | 9 Captain St   | Tony Stark     | Stark Tower, NY          | 10.5   | Delivered  | TRK006          | 2025-03-25    |             | 4           | 2           |            |            |              |   |
| 7            | Bruce Wayne      | Wayne Manor    | Clark Kent     | Daily Planet, Metropolis | 7      | In Transit | TRK007          | 2025-03-26    |             | 5           | 2           |            |            |              |   |
| 8            | Diana Prince     | Themyscira     | Barry Allen    | Central City             | 4.5    | Pending    | TRK008          | 2025-03-27    |             | 6           | 2           |            |            |              |   |
| 9            | Peter Parker     | 20 Queens St   | Mary Jane      | Brooklyn                 | 2.5    | Delivered  | TRK009          | 2025-03-28    |             | 7           | 2           |            |            |              |   |
| 10           | Natasha Romanoff | Red Room       | Hawkeye        | Avengers Facility        | 8      | Delivered  | TRK010          | 2025-03-29    |             | 8           | 2           |            |            |              |   |
| 11           | Clark Kent       | Smallville     | Lois Lane      | Metropolis               | 1      | In Transit | TRK011          | 2025-03-30    |             | 9           | 3           |            |            |              |   |
| 12           | Thor Odinson     | Asgard         | Loki Laufeyson | Jotunheim                | 6.5    | Pending    | TRK012          | 2025-03-31    |             | 10          | 3           |            |            |              |   |
| 14           | manoj            | chennai        | swetha         | bharathi street          | 4.5    | In Transit | TRK014          | 2025-03-25    |             | 1           | 3           |            |            |              |   |
| 20           | Ajay Kumar       | Delhi          | Vijay Singh    | Mumbai                   | 3      | Delivered  | TRK020          | 2025-03-20    |             | 2           | 3           |            |            |              |   |
| 21           | Meera Shah       | Pune           | Rohan Patel    | Ahmedabad                | 4      | Delivered  | TRK021          | 2025-03-21    |             | 3           | 3           |            |            |              |   |
| 22           | Karthik Raja     | Coimbatore     | Suresh Iyer    | Chennai                  | 2.5    | In Transit | TRK022          | 2025-03-30    |             | 4           | 1           |            |            |              |   |
| 23           | Wisha Gupta      | Lucknow        | Arjun Reddy    | Hyderabad                | 5.5    | Pending    | TRK023          | 2025-03-31    |             | 5           | 1           |            |            |              |   |
| 24           | Anand Sharma     | Bangalore      | Deepak Jain    | Kolkata                  | 3.2    | In Transit | TRK024          | 2025-03-19    |             | 6           | 2           |            |            |              |   |
| 25           | Sita Devi        | Patna          | Ravi Kumar     | Jaipur                   | 2      | In Transit | TRK025          | 2025-03-19    |             | 7           | 2           |            |            |              |   |
| 26           | Rahul Mehta      | Surat          | Geeta Yadav    | Noida                    | 4.5    | Pending    | TRK026          | 2025-04-01    |             | 8           | 2           |            |            |              |   |
| 27           | Priya Sharma     | Nagpur         | Vikas Kumar    | Ranchi                   | 6      | In Transit | TRK027          | 2025-04-02    |             | 9           | 3           |            |            |              |   |
| 28           | Rajesh Khanna    | Chandigarh     | Sundar Iyer    | Mysore                   | 1.5    | Delivered  | TRK028          | 2025-04-03    |             | 10          | 3           |            |            |              |   |

41. Retrieve a list of employees and the number of couriers assigned to each employee:

```
mysql> SELECT employee_id, COUNT(courier_id) AS total_couriers
-> FROM courier
-> GROUP BY employee_id;
```

| employee_id | total_couriers |
|-------------|----------------|
| 1           | 7              |
| 2           | 8              |
| 3           | 9              |

```
3 rows in set (0.01 sec)
```

42. Retrieve a list of locations and the total payment amount received at each location:

```
mysql> SELECT location_id, SUM(amount) AS total_payments
-> FROM payment
-> GROUP BY location_id;
```

| location_id | total_payments |
|-------------|----------------|
| 101         | 455.00         |
| 102         | 525.00         |
| 103         | 580.00         |
| 104         | 145.00         |
| 105         | 90.00          |
| 106         | 175.00         |
| 107         | 155.00         |
| 108         | 240.00         |
| 109         | 165.00         |
| 110         | 175.00         |

```
10 rows in set (0.01 sec)
```

43. Retrieve all couriers sent by the same sender (based on SenderName).

```
mysql> SELECT sender_name, COUNT(*) AS total_couriers
-> FROM courier
-> GROUP BY sender_name
-> HAVING COUNT(*) > 1;
```

| sender_name | total_couriers |
|-------------|----------------|
| manoj       | 2              |

```
1 row in set (0.00 sec)
```

44. List all employees who share the same role.

```
mysql> SELECT role, GROUP_CONCAT(name) AS employees
-> FROM employee
-> GROUP BY role
-> HAVING COUNT(*) > 1;
```

| role               | employees           |
|--------------------|---------------------|
| Delivery Executive | Johnny Depp,mothesh |

```
1 row in set (0.00 sec)
```

45. Retrieve all payments made for couriers sent from the same location.

```
mysql> SELECT c.sender_address, SUM(p.amount) AS total_payments
-> FROM payment p
-> JOIN courier c ON p.courier_id = c.courier_id
-> GROUP BY c.sender_address
-> HAVING COUNT(*) > 1;
```

```
Empty set (0.00 sec)
```

46. Retrieve all couriers sent from the same location (based on SenderAddress).

```
mysql> SELECT sender_address, COUNT(*) AS total_couriers
-> FROM courier
-> GROUP BY sender_address
-> HAVING COUNT(*) > 1;
```

```
+-----+-----+
| sender_address | total_couriers |
+-----+-----+
| chennai        |                2 |
+-----+-----+
1 row in set (0.00 sec)
```

47. List employees and the number of couriers they have delivered:

```
mysql> SELECT e.employee_id, e.name AS employee_name, COUNT(c.courier_id) AS total_deliveries
-> FROM employee e
-> LEFT JOIN courier c ON e.employee_id = c.employee_id
-> WHERE c.status = 'Delivered'
-> GROUP BY e.employee_id, e.name;
```

```
+-----+-----+-----+
| employee_id | employee_name | total_deliveries |
+-----+-----+-----+
|          1 | Subramani     |                2 |
|          2 | Johnny Depp   |                3 |
|          3 | jeeva         |                3 |
+-----+-----+-----+
```

48. Find couriers that were paid an amount greater than the cost of their respective courier services

```
mysql> SELECT p.courier_id, p.amount AS payment_amount, s.cost AS service_cost
-> FROM payment p
-> JOIN services s ON p.service_id = s.service_id
-> WHERE p.amount > s.cost;
```

```
+-----+-----+-----+
| courier_id | payment_amount | service_cost |
+-----+-----+-----+
|          4 |          90.00 |          20.00 |
|          9 |          45.00 |          30.00 |
|         10 |          70.00 |          50.00 |
|         12 |         200.00 |         150.00 |
|         23 |          65.00 |          30.00 |
|         27 |         105.00 |          60.00 |
|         28 |         210.00 |         150.00 |
|         29 |         250.00 |         100.00 |
+-----+-----+-----+
8 rows in set (0.00 sec)
```