

### TASK-1:

## I. Creating a Database

QUERY: CREATE DATABASE CourierManagementDB;

## **II. Creating Tables**

User Table

```
MySQL localhost:3306 ssl SQL > USE CourierManagementDB;
Default schema set to `CourierManagementDB`.
Fetching global names, object names from `couriermanagementdb` for auto-completion... Press ^C to stop
MySQL localhost:3306 ssl couriermanagementdb SQL > CREATE TABLE User(UserID INT PRIMARY KEY,
                                                            -> Name VARCHAR(255),
                                                           -> Email VARCHAR(255) UNIQUE,
                                                           -> Password VARCHAR(255),
-> ContactNumber VARCHAR(20),
                                                           -> Address TEXT
                                                           -> );
Query OK, 0 rows affected (0.0777 sec)
MySQL localhost:3306 ssl couriermanagementdb SQL
                                                            > DESC User
                                                            -> ;
 Field
                                     Null | Key
                                                    Default | Extra
                    Type
  UserID
                    int
                                     NO
                                             PRI
                                                    NULL
                                                    NULL
  Name
                    varchar(255)
                                     YES
                    varchar(255)
varchar(255)
                                             UNI
  Email
                                     YES
                                                    NULL
  Password
                                     YES
                                                    NULL
  ContactNumber
                    varchar(20)
                                     YES
                                                    NULL
  Address
                    text
                                     YES
                                                    NULL
  rows in set (0.0094 sec)
```

### Courier Table

```
CREATE TABLE Courier(Cou
SenderName VARCHAR(255),
MySQL localhost:3306 ssl couriermanagementdb
                                                                                                                         (CourierID INT PRIMARY KEY
                                                                                       SenderName VARCHAR(255),
SenderAddress TEXT,
ReceiverName VARCHAR(255),
ReceiverAddress TEXT,
Weight DECIMAL(5,2),
Status VARCHAR(50),
TrackingNumber VARCHAR(20) UNIQUE,
DeliveryDate DATE
                                                                                   ->
Query OK, 0 rows affected (0.0597 sec)
MySQL localhost:3306 ssl couriermanagementdb SQL
                                                                                    > DESC Courier
   Field
                                                        Null
                                                                            Default | Extra |
                               Type
                                                                   Kev
   CourierID
                                int
                               varchar(255)
   SenderName
SenderAddress
                                                        YES
YES
                                                                            NULL
                                                                            NULL
                                text
                                varchar(255)
   ReceiverName
                                                        YES
                                                                             NULL
   ReceiverAddress
                                text
                                                        YES
                                                                            NULL
                               decimal(5,2)
varchar(50)
varchar(20)
                                                        YES
                                                                            NULL
   Weight
   Status
                                                        YES
                                                                            NULL
   TrackingNumber
                                                        YES
                                                                   UNI
                                                                             NULL
   DeliveryDate
                                date
                                                                            NULL
           in
                      (0.0033 se
```

## Courier Services Table

```
MySQL localhost:3306 ssl couriermanagementdb
                                                                            (ServiceID INT PRIMARY KEY,
ServiceName VARCHAR(100),
Cost DECIMAL(8,2)
Query OK, 0 rows affected (0.1322 sec)

MySQL localhost:3306 ssl couriermanagementdb SQL
                                                                         > DESC CourierServices
  Field
                                          Null |
                                                            Default
                     Type
                                                    Key
                                                                        | Extra
  ServiceID
                                                             NULL
                      varchar(100)
decimal(8,2)
  ServiceName
                                                             NULL
  Cost
                                           YES
                                                             NULL
                  (0.0363 sec)
```

### Employee Table

```
MySQL localhost:3306 ssl couriermanagementdb
                                                             > CREATE TABLE Employee(EmpID INT PRIMARY KEY,
                                                            -> Name VARCHAR(255),
-> Email VARCHAR(255) UNIQUE,
-> ContactNumber VARCHAR(20),
                                                            -> Role VARCHAR(50),
                                                            -> Salary DECIMAL(10,2));
Query OK, 0 rows affected (0.0832 sec)
MySQL localhost:3306 ssl couriermanagementdb SQL
                                                             > DESC Employee
                                                            ->
| Field
                    Type
                                       Null
                                               Key
                                                      Default | Extra
                                               PRI
                                                      NULL
 EmpID
                    int
                                       NO
 Name
                    varchar(255)
                                       YES
                                                      NULL
  Email
                    varchar(255)
                                       YES
                                               UNI
                                                      NULL
                    varchar(20)
varchar(50)
  ContactNumber
                                       YES
                                                      NULL
  Role
                                       YES
                                                      NULL
                    decimal(10,2)
  Salary
                                       YES
                                                      NULL
  rows in set (0.0048 sec)
```

### Location Table

```
> CREATE TABLE Location(LocationID INT PRIMARY KEY,
> LocationName VARCHAR(100),
MySQL localhost:3306 ssl couriermanagementdb
                                                         -> Address TEXT);
Query OK, 0 rows affected (0.0260 sec)
      localhost:3306 ssl couriermanagementdb SQL
                                                            DESC Location
                                  Null |
 Field
                                                 Default | Extra
                  Type
                                          Key
 LocationID
                  int
                                   NO
                                          PRT
                                                 NULL
                  varchar(100)
 LocationName
                                   YES
                                                 NULL
                                   YES
 Address
                  text
                                                 NULL
```

## Payment Table

```
MySQL localhost:3306 ssl couriermanagementdb
                                                                             CREATE TABLE Payment(PaymentID INT PRIMARY KEY,
                                                                         -> CourierID INT,
-> LocationID INT,
-> Amount DECIMAL(10,2),
                                                                         -> PaymentDate DATE,
-> FOREIGN KEY(CourierID) REFERENCES Courier(CourierID),
-> FOREIGN KEY(LocationID) REFERENCES Location(LocationID)
Query OK, 0 rows affected (0.0606 sec)

MySQL localhost:3306 ssl couriermanagementdb SQL > desc Payment
  Field
                                            Null
                                                      Key
                                                              Default
                                                                            Extra
                      Type
  PaymentID
                      int
                                            NO
                                                      PRI
                                                               NULL
  CourierID
                      int
                                             YES
                                                      MUL
                                                               NULL
   LocationID
                                             YES
                                                      MUL
                                                               NULL
                      int
                      decimal(10,2)
                                             YES
                                                               NULL
   Amount
   PaymentDate
                                                               NULL
                      date
                    (0.0044
```

Note: As there is a need for one more table, creating the parcel table in addition to the tables given.

### Parcel Table

```
CREATE TABLE Parcel (
MySQL localhost:3306 ssl couriermanagementdb
                                                              ParcelID INT PRIMARY KEY,
                                                              CourierID INT,
Description VARCHAR(255),
                                                              Weight DECIMAL(5,2),
                                                              Status VARCHAR(50),
                                                              FOREIGN KEY (CourierID) REFERENCES Courier(CourierID)
                                                       -> );
Query OK, 0 rows affected (0.1040 sec)
MySQL localhost:3306 ssl couriermanagementdb SQL > desc Parcel;
  Field
                                Null
                                              Default | Extra
                Type
                                        Key
  ParcelID
                 int
                                NO
                                        PRI
                                              NULL
  CourierID
                 int
                                YES
                                        MUL
                                              NULL
  Description
                 varchar(255)
                                YES
                                              NULL
                 decimal(5,2)
                                YES
  Weight
                                              NULL
  Status
                 varchar(50)
                                YES
                                              NULL
  rows in set
               (0.0128 sec)
```

## III. Inserting values into the tables

#### User Table

```
MySQL localhost:3306 ssl couriermanagementdb
                                                                                                            | INIO User VALUES
|Brindha', 'brindha10@gmail.com', 'bri204', '9857679819', 'Chennai'),
|'Agnes', 'agnes94@gmail.com', 'agnes12', '9786564872', 'Madurai'),
|'John', 'johnjohn@gmail.com', 'john70', '8270465829', 'Coimbatore'),
|'Mary', 'maryjose@gmail.com', 'maryj', '9896284637', 'Tiruchirapalli'),
|'Lavanya', 'lavanya04@gmail.com', 'lavs', '7308952618', 'Kumbakonam');
                                                                                           -> (121,
-> (122,
-> (123,
-> (124,
                                                                                                 (125.
Ouerv OK. 5 rows affected (0.0320 sec)
Records: 5 Duplicates: 0 Warnings: 0
MySQL localhost:3306 ssl couriermanagementdb SQL > SELECT * FROM USER;
   UserID | Name
                                    Email
                                                                           Password |
                                                                                               ContactNumber
                  Brindha
                                    brindha10@gmail.com
                                                                           bri204
                                                                                                9857679819
        121
                                                                                                                            Chennai
        122
123
                                    agnes94@gmail.com
johnjohn@gmail.com
                                                                            agnes12
                                                                                                9786564872
                                                                                                                            Madurai
                   Agnes
                   John
                                                                            john70
                                                                                                8270465829
                                                                                                                            Coimbatore
                                    maryjose@gmail.com
lavanya04@gmail.com
        124
                                                                           maryj
lavs
                                                                                                                            Tiruchirapalli
                  Mary
                                                                                               9896284637
        125
                  Lavanva
                                                                                               7308952618
                                                                                                                            Kumbakonam
   rows in set (0.004<u>0 sec</u>)
```

## Courier Table

```
<mark>NySQL localhost:3306 ssl couriermanagementdb</mark>
mber, DeliveryDate)
                                                                                                                                > INSERT INTO Courier (CourierID, SenderName, SenderAddress, ReceiverName, ReceiverAddress, Weight, Status, Tracking
                                                                                                                             -> VALUES
-> (201, 'Mr. Ramachandran', 'Chennai', 'Kavi', 'Hyderabad', 2.8, 'Delivered', 'TRK2001', '2025-06-10'),
                                                                                                                             -> (202, 'Agnes', 'Madurai', 'Revathi', 'Delhi', 1.5, 'In Transit', 'TRK2002', '2025-06-14'),
-> (203, 'Naveen', 'Coimbatore', 'Rekha', 'Bangalore', 3.0, 'Yet to Dispatch', 'TRK2003', '2025-06-20'),
                                                                                                                             -> (204, 'Lavanya', 'Kumbakonam', 'Deepa', 'Pune', 4.2, 'Delivered', 'TRK2004', '2025-06-08'),
-> (205, 'Mary', 'Tiruchirapalli', 'Meera', 'Lucknow', 2.7, 'Cancelled', 'TRK2005', '2025-06-05'),
-> (206, 'Kiran', 'Mumbai', 'Sahana', 'Chennai', 1.9, 'In Transit', 'TRK2006', '2025-06-12'),
-> (207, 'John', 'Coimbatore', 'Vijay', 'Kolkata', 3.5, 'Yet to Dispatch', 'TRK2007', '2025-06-22'),
-> (208, 'Ravi', 'Trichy', 'Ayesha', 'Jaipur', 2.0, 'Delivered', 'TRK2008', '2025-06-11'),
-> (209, 'Brindha', 'Chennai', 'Arjun', 'Ahmedabad', 3.8, 'In Transit', 'TRK2009', '2025-06-13'),
-> (210, 'Sundar', 'Madurai', 'Karthik', 'Delhi', 1.3, 'Yet to Dispatch', 'TRK2010', '2025-06-25');
uery OK, 10 rows affected (0.0169 sec)
ecords: 10 Duplicates: 0 Warnings: 0
MySQL localhost:3306 ssl couriermanag
                                                                                      s: U
nanagementdb <mark>SQL</mark>> select * from Courier;
                                                                                                                   | ReceiverName | ReceiverAddress | Weight | Status
 CourierID | SenderName
                                                                           SenderAddress
                                                                                                                                                                                                                                                                            TrackingNumber | DeliveryDate
                            Mr. Ramachandran
Agnes
Naveen
Lavanya
Mary
Kiran
John
Ravi
Brindha
                                                                                                                                                                                                                                                                                                                     2025-06-10
2025-06-10
2025-06-20
2025-06-08
2025-06-05
2025-06-12
2025-06-13
                                                                                                                                                            Hyderabad
Delhi
Bangalore
Pune
Lucknow
Chennai
Kolkata
Jaipur
Ahmedabad
Delhi
                                                                                                                                                                                                                                                                             TRK2001
                                                                              Chennai
                                                                                                                                                                                                                                Delivered
                                                                                                                        Kavi
                                                                                                                       Kavi
Revathi
Rekha
Deepa
Meera
Sahana
Vijay
Ayesha
Arjun
Karthik
                                                                                                                                                                                                                               Delivered
In Transit
Yet to Dispatch
Delivered
Cancelled
In Transit
Yet to Dispatch
Delivered
                                                                                                                                                                                                                                                                            TRK2001
TRK2002
TRK2003
TRK2004
TRK2005
TRK2006
TRK2007
                202
203
204
205
206
207
208
                                                                              Madurai
                                                                                                                                                                                                               1.50
3.00
4.20
2.70
1.90
3.50
2.00
3.80
1.30
                                                                             Madurai
Coimbatore
Kumbakonam
Tiruchirapalli
Mumbai
Coimbatore
Trichy
Chennai
Madurai
                              Brindha
Sundar
                                                                                                                                                                                                                                In Transit
Yet to Dispatch
                                                                                                                                                                                                                                                                                                                       2025-06-13
2025-06-25
                                                                                                                                                                                                                                                                            TRK2010
```

### Courier Services Table

```
MySQL localhost:3306 ssl couriermanagementdb SQL
                                                                           > INSERT INTO CourierServices (ServiceID, ServiceName, Cost)
                                                                          -> VALUES
                                                                         -> VALUES
-> (1, 'Standard Delivery', 150.00),
-> (2, 'Express Delivery', 300.00),
-> (3, 'Same-Day Delivery', 500.00),
-> (4, 'Overnight Delivery', 450.00),
-> (5, 'Eco Saver Delivery', 100.00),
-> (6, 'Premium Handling Service', 650.00);
Query OK, 6 rows affected (0.0082 sec)
Records: 6 Duplicates: 0 Warnings: 0
MySQL localhost:3306 ssl couriermanagementdb SQL > SELECT * FROM CourierServices;
  ServiceID | ServiceName
                                                       | Cost
                   Standard Delivery
                                                          150.00
             2
                   Express Delivery
                                                          300.00
                   Same-Day Delivery
Overnight Delivery
             3
                                                          500.00
                                                          450.00
                   Eco Saver Delivery
                                                          100.00
                   Premium Handling Service
             6
                                                         650.00
         in set (0.0009 sec)
```

### **Employee Table**

```
MySQL localhost:3306 ssl couriermanagementdb SQL > INSERT INTO Employee VALUES(1201, 'Shakthi', 'shakthi002@gmail.com', '9095866437', 'Delivery Executive', 22000), (Manikandan', 'manikandan@gmail.com', '6374356002', 'Manager', 55000), (1203, 'Shalini', 'shalini4444@gmail.com', '7205783480', 'Supervisor', 36000), (1204, 'Surya', 'suryaseka', 'com', '9786453768', 'Delivery Executive', 24000), (1205, 'Shali Sharath', 'shaisharath@gmail.com', '9629698774', 'Supervisor', 35000), (1206, 'Mukundh', 'mukundh@gmail.com', 64378', 'Logistics Analyst', 45000), (1207, 'Marshook', 'marshook09@gmail.com', '7094555273', 'Delivery Executive', 27000); (1206, 'Mukundh', 'mukundh@gmail.com', '7094555273', 'Delivery Executive', 27000); (1206, 'Mukundh', 'Mukundh', 'Mukundh@gmail.com', '7094555273', 'Delivery Executive', 27000); (1207, 'Marshook', 'Ma
                                    EmpID | Name
                                                                                                                                                                                                                                                                                                        | ContactNumber | Role
                                                                                                                                                | Email
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Salary
                                                                                                                                                        shakthi002@gmail.com
manikandan@gmail.com
shalini4444@gmail.com
suryasekar@gmail.com
shaisharath@gmail.com
mukundh@gmail.com
marshook09@gmail.com
                                                                                                                                                                                                                                                                                                                                                                                                                   Delivery Executive
Manager
Supervisor
Delivery Executive
Supervisor
Logistics Analyst
Delivery Executive
                                                                                                                                                                                                                                                                                                               9095866437
6374356002
7205783480
9786453768
9629698774
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      22000.00
55000.00
30000.00
24000.00
                  1201
1202
1203
1204
                                                            Shakthi
Manikandan
Shalini
                                                            Surya
Shai Sharath
                                                             Mukundh
Marshook
                                                                                                                                                                                                                                                                                                                 8278564378
7094555273
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      27000.00
```

### Location Table

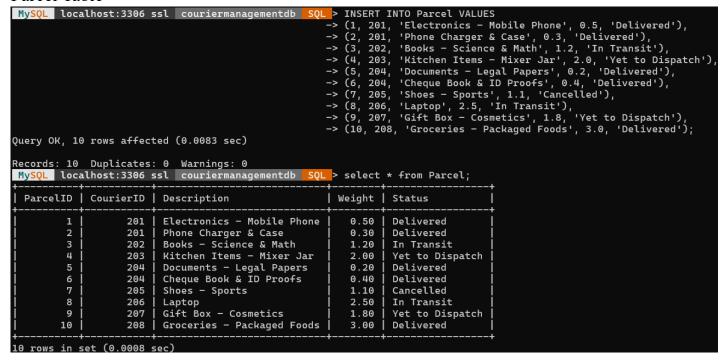
```
MySQL localhost:3306 ssl couriermanagementdb SQ
                                                                                                                                            > INSERT INTO Location (LocationID, LocationName, Address)
                                                                                                                                        | INSERT INTO Location (LocationID, LocationName, Address)
-> VALUES
-> (831, 'Kumbakonam Delivery Express', 'Opp. to Mahamaham, Kumbakonam'),
-> (832, 'Trichy Courier Services', 'Next to Periyasamy Tower, Chathram, Tiruchirappalli'),
-> (833, 'Thanjai Courier Point', 'Railway Junction Road, Thanjavur'),
-> (834, 'Madurai Parcel Services', 'Near Teppakulam, Madurai'),
-> (835, 'Covai Express Delivery', 'Backside of Gandhi Nagar Bus Stand, Coimbatore'),
-> (836, 'Pondy Couriers', 'MG Road, White Town, Pondicherry'),
-> (837, 'Salem Delivery Point', 'Anna Statue, Salem'),
-> (838, 'Vellore Parcels', 'Chennai Highways, Vellore'),
-> (839, 'Hosur Delivery Express', 'Bangalore Main Road, Hosur');
Query OK, 9 rows affected (0.0220 sec)
Records: 9 Duplicates: 0 Warnings: 0
MySQL localhost:3306 ssl couriermanagementdb SQL > select * from Location;
   LocationID | LocationName
                                                                                                                   Address
                                                                                                                      Opp. to Mahamaham, Kumbakonam
Next to Periyasamy Tower, Chathram, Tiruchirappalli
Railway Junction Road, Thanjavur
Near Teppakulam, Madurai
Backside of Gandhi Nagar Bus Stand, Coimbatore
MG Road, White Town, Pondicherry
                                      Kumbakonam Delivery Express
Trichy Courier Services
                                      Thanjai Courier Point
Madurai Parcel Services
                       833
                                      Covai Express Delivery
Pondy Couriers
Salem Delivery Point
Vellore Parcels
                       835
                        836
                                                                                                                      Anna Statue, Salem
Chennai Highways, Vellore
Bangalore Main Road, Hosur
                       837
                        839
                                       Hosur Delivery Express
    rows in set (0.0016 sec)
```

## Payment Table

```
MySQL localhost:3306 ssl couriermanagementdb
                                                                                       > INSERT INTO Payment (PaymentID, CourierID, LocationID, Amount, PaymentDate)
                                                                                     -> VALUES
                                                                                    -> VALUES

-> (601, 201, 831, 120.00, '2025-06-10'),
-> (602, 202, 832, 320.00, '2025-06-12'),
-> (603, 203, 833, 90.00, '2025-06-14'),
-> (604, 204, 834, 400.00, '2025-06-08'),
-> (605, 205, 835, 550.00, '2025-06-07'),
-> (606, 206, 836, 1500.00, '2025-06-11'),
-> (607, 207, 837, 180.00, '2025-06-13'),
-> (608, 208, 838, 250.00, '2025-06-13'),
-> (609, 209, 839, 6000.00, '2025-06-12'),
-> (610, 210, 832, 100.00, '2025-06-14');
Query OK, 10 rows affected (0.0099 sec)
Records: 10 Duplicates: 0 Warnings: 0
MySQL localhost:3306 ssl couriermanagementdb SQL > SELECT * FROM Payment;
  PaymentID | CourierID | LocationID | Amount
                                                                                PavmentDate
            601
                                201
                                                                 120.00
                                                                                2025-06-10
                                                                 320.00
90.00
400.00
            602
                                202
                                                      832
                                                                                2025-06-12
                                                     833
                                                                                2025-06-14
            603
                                203
            604
                                204
                                                      834
                                                                                2025-06-08
             605
                                205
                                                      835
                                                                 550.00
                                                                                2025-06-07
                                                               1500.00
180.00
            606
                                206
                                                      836
                                                                                2025-06-11
                                                                                2025-06-13
            607
                                207
                                                      837
            608
                                                      838
                                                                 250.00
                                                                                2025-06-09
                                208
                                209
                                                      839
                                                                6000.00
                                                                                2025-06-12
             609
            610
                                210
                                                      832
                                                                 100.00
                                                                                2025-06-14
10 rows in set (0.0029 sec)
```

### Parcel Table



## III. Defining Relationships between the Tables

#### i. User ↔ Courier

Relationship: One – Many.

Description: One user can place many courier orders.

#### ii. Courier $\leftrightarrow$ Parcel

Relationship: One – Many.

Description: One courier can include multiple parcels or packages.

### iii. Courier ↔ Payment

Relationship: One – One.

Description: One courier has only one payment.

### iv. Location ↔ Payment

Relationship: One – Many.

Description: One location can be used for various payments.

#### v. Courier ↔ Courier Services

Relationship: Many – One.

Description: Many couriers can use the same type of courier service.

### vi. Employee $\leftrightarrow$ Courier

Relationship: One – Many.

Description: One employee (Delivery Executive) may deliver multiple couriers.

## **TASK-2 (SELECT, WHERE)**

### 1. List all customers:

Here customers are the users who are all using the courier service.

**QUERY:** 

SELECT \*FROM User;

	ocalhost:3: ocalhost:3:				tion-1 list all t User;	he customers*/
UserID	Name	Email	Password	ContactNumber	Address	į
121   122   123   124   125	Brindha   Agnes   John   Mary   Lavanya	brindha10@gmail.com   agnes94@gmail.com   johnjohn@gmail.com   maryjose@gmail.com   lavanya04@gmail.com	agnes12   john70   maryj	9857679819 9786564872 8270465829 9896284637 7308952618	   Chennai   Madurai   Coimbatore   Tiruchirapalli   Kumbakonam	  -  -  -
+	+	+	-+	+	+	+

## 2. List all orders for a specific customer:

QUERY:

SELECT \* FROM Courier WHERE UserID=121;

				* TASK-2 QUESTION-2 _ECT * FROM COURIER			for the specific	customers*/		
CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	UserID	
202   7   205   1   208   1	Mary	Madurai Tiruchirapalli   Trichy	Revathi Meera Ayesha	Delhi Lucknow Jaipur	2.70	In Transit Cancelled Delivered	TRK2002 TRK2005 TRK2008	2025-06-14 2025-06-05 2025-06-11	121   121   121	
3 rows in set	++++++									

### 3. List all couriers:

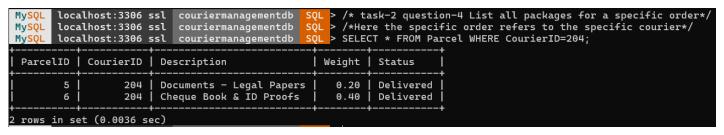
**QUERY:** 

SELECT \* FROM Courier;

<mark>/SQL</mark> loca	lhost:3306 ssl cou	riermanagementdb	SQL > SELECT *	FROM Courier;				<b>.</b>	
CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	UserID
201	Mr. Ramachandran	Chennai	Kavi	Hyderabad	2.80	Delivered	TRK2001	2025-06-10	123
202	Agnes	Madurai	Revathi	Delhi	1.50	In Transit	TRK2002	2025-06-14	121
203	Naveen	Coimbatore	Rekha	Bangalore	3.00	Yet to Dispatch	TRK2003	2025-06-20	125
204	Lavanya	Kumbakonam	Deepa	Pune	4.20	Delivered	TRK2004	2025-06-08	122
205	Mary	Tiruchirapalli	Meera	Lucknow	2.70	Cancelled	TRK2005	2025-06-05	121
206	Kiran	Mumbai	Sahana	Chennai	1.90	In Transit	TRK2006	2025-06-12	124
207	John	Coimbatore	Vijay	Kolkata	3.50	Yet to Dispatch	TRK2007	2025-06-22	125
208	Ravi	Trichy	Ayesha	Jaipur	2.00	Delivered	TRK2008	2025-06-11	121
209	Brindha	Chennai	Arjun	Ahmedabad	3.80	In Transit	TRK2009	2025-06-13	123
210	Sundar	Madurai	Karthik	Delhi	1.30	Yet to Dispatch	TRK2010	2025-06-25	124

## 4. List all packages for a specific order:

SELECT \* FROM Parcel WHERE CourierID=204;



## 5. List all deliveries for a specific courier:

QUERY:

SELECT \* FROM Parcel WHERE CourierID=201 AND Status ='Delivered';

MySQL localhost:3306 ssl couriermanagementdb SQL > /*task-2 question-5 List all deliveries for a specific courier*/ MySQL localhost:3306 ssl couriermanagementdb SQL > /*Here we are asked to retrieve the parcels for a specific courier which are all delivered*/ MySQL localhost:3306 ssl couriermanagementdb SQL > SELECT * FROM Parcel WHERE CourierID=201 AND Status='Delivered';
+
ParcelID   CourierID   Description
1 201   Electronics - Mobile Phone   0.50   Delivered
2   201   Phone Charger & Case   0.30   Delivered   ++
2 rows in set (0.0014 sec)

## 6. List all undelivered packages:

QUERY:

SELECT \* FROM Courier WHERE Status IN ("In Transit', 'Yet to Dispatch', 'Cancelled');

MySQL localhost:3306 ssl couriermanagementdb SQL > /* task-2 question-6 List all undelivered packages*/ MySQL localhost:3306 ssl couriermanagementdb SQL > SELECT * FROM Courier WHERE Status IN('In Transit','Yet to Dispatch','Cancelled');								');		
ı	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	UserID
ı		Agnes	Madurai	Revathi	Delhi	1.50	In Transit	 TRK2002	   2025-06-14	121
	203	Naveen	Coimbatore	Rekha	Bangalore	3.00	Yet to Dispatch	TRK2003	2025-06-20	125
	205	Mary	Tiruchirapalli	Meera	Lucknow	2.70	Cancelled	TRK2005	2025-06-05	121
	206	Kiran	Mumbai	Sahana	Chennai	1.90	In Transit	TRK2006	2025-06-12	124
	207	John	Coimbatore	Vijay	Kolkata	3.50	Yet to Dispatch	TRK2007	2025-06-22	125
	209	Brindha	Chennai	Arjun	Ahmedabad	3.80	In Transit	TRK2009	2025-06-13	123
	210	Sundar	Madurai	Karthik	Delhi	1.30	Yet to Dispatch	TRK2010	2025-06-25	124
;	t									

## 7. List all packages that are scheduled for delivery today:

QUERY:

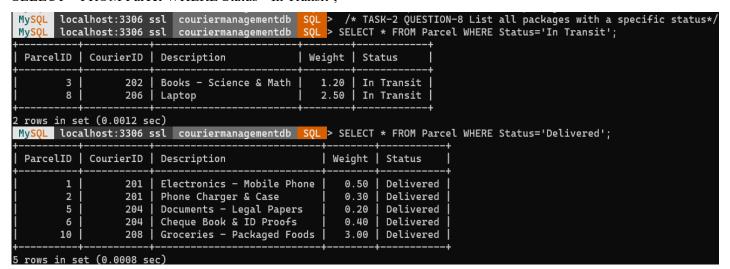
SELECT \* FROM Courier WHERE DeliveryDate=DATE(NOW());

MySQL localhost:3306 ssl couriermanagementdb SQL > /* task-2 question 7 List all packages that are scheduled for delivery today*/ MySQL localhost:3306 ssl couriermanagementdb SQL > SELECT * FROM Courier WHERE DeliveryDate=DATE(NOW());									
CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	UserID
206	Kiran	Mumbai	Sahana	Chennai	1.90	In Transit	TRK2006	2025-06-12	124
1 row in set	(0.0057 sec)								

## 8. List all packages with a specific status:

QUERY:

SELECT \* FROM Parcel WHERE Status='In Transit';



## 9. Calculate the total number of packages for each courier:

**QUERY:** 

SELECT CourierID, COUNT(\*) AS TotalPackages FROM Parcel GROUP BY CourierID;

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

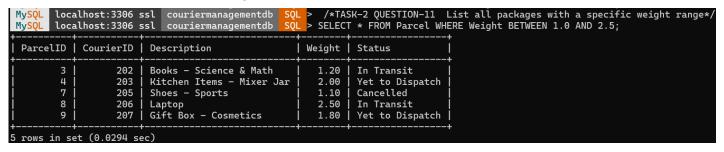
**QUERY:** 

SELECT CourierID, DATEDIFF(DeliveryDate, OrderDate) AS DeliveryTime\_inDays FROM Courier WHERE DeliveryDate IS NOT NULL GROUP BY CourierID;

## 11. List all packages with a specific weight range:

**QUERY**:

SELECT \* FROM Parcel WHERE Weight BETWEEN 1.0 AND 2.5;



## 12. Retrieve employees whose names contain 'John':

**QUERY:** 

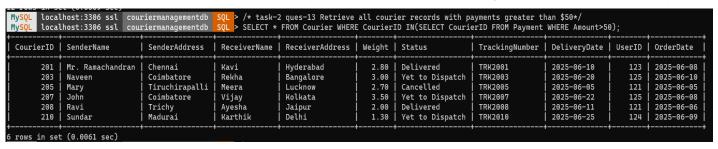
SELECT \* FROM Employee WHERE Name LIKE '%John%;

MySQL localhost:3306 ssl co	ouriermanagementdb SQL ouriermanagementdb SQL				
EmpID   Name	Email	ContactNumber	Role	Salary	
1208   John paul   1209   Peter John Francis   1210   Kevin John	pauljohn@gmail.com johnfrancis@gmail.com kevin@gmail.com	9678674587 6374567567 8234758972	Customer Support	29000.00 35000.00 28000.00	
3 rows in set (0.0008 sec)			,		

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

**OUERY:** 

SELECT \* FROM Courier WHERE CourierID IN (SELECT CourierID FROM Payment WHERE Amount > 50);

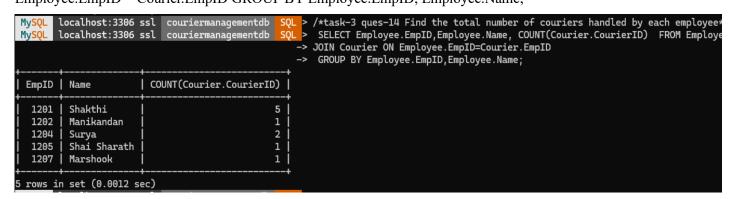


## TASK-3 (Group By, Aggregate Functions, Having, Order By, Where)

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

**QUERY:** 

SELECT Employee.EmpID, Employee.Name, COUNT(Courier.CourierID) FROM Employee JOIN Courier ON Employee.EmpID = Courier.EmpID GROUP BY Employee.EmpID, Employee.Name;

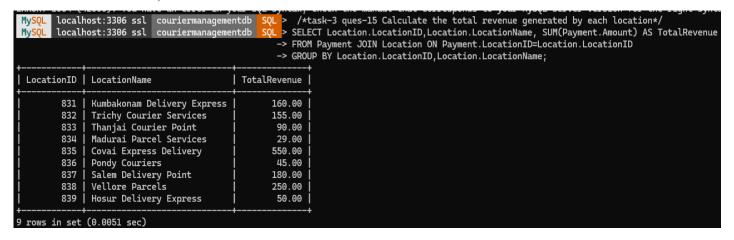


## 15. Calculate the total revenue generated by each location:

**QUERY:** 

SELECT Location.LocationID, Location.LocationName, SUM(Payment.Amount) AS TotalRevenue FROM Payment JOIN Location ON Payment.LocationID = Location.LocationID GROUP BY Location.LocationID,

Location.LocationName;

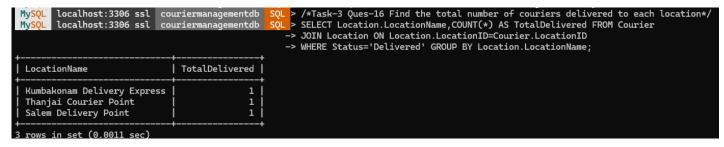


### 16. Find the total number of couriers delivered to each location:

### **QUERY:**

SELECT Location.LocationName, COUNT(\*) AS TotalDelivered FROM Courier JOIN Location ON

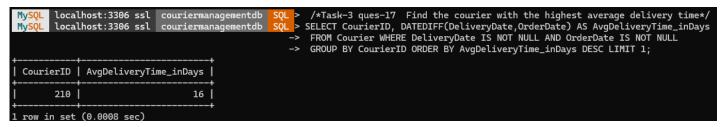
LocationLocationID = Courier.LocationID WHERE Status = 'Delivered' GROUP BY Location.LocationName;



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

### **QUERY:**

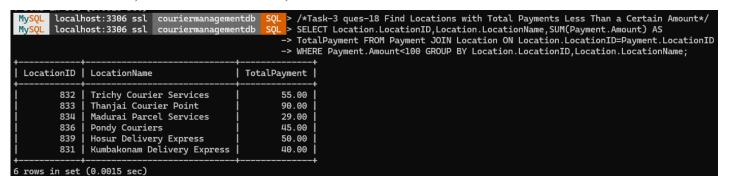
SELECT CourierID, DATEDIFF(DeliveryDate, OrderDate) AS AvgDeliveryTime\_inDays FROM Courier WHERE DeliveryDate IS NOT NULL AND OrderDate IS NOT NULL GROUP BY CourierID ORDER BY AvgDeliveryTime inDays DESC LIMIT 1;



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

### **QUERY:**

SELECT Location.LocationID, Location.LocationName, SUM(Payment.Amount) AS TotalPayment FROM Payment JOIN Location ON Location.LocationID = Payment.LocationID WHERE Payment.Amount < 100 GROUP BY Location.LocationID, Location.LocationName;



## 19. Calculate Total Payments per Location:

### **QUERY**:

SELECT Location.LocationID, Location.LocationName, SUM(Payment.Amount) AS TotalPayment FROM Payment JOIN Location ON LocationLocationID = Payment.LocationID GROUP BY Location.LocationID, Location.LocationName;

	nost:3306 ssl couriermanageme nost:3306 ssl couriermanageme	ntdb SQL > /*task-3 ques-19 Calculate Total Payments per Location*/ ntdb SQL > SELECT Location.LocationID,Location.LocationName,SUM(Payment.Amount) AS -> TotalPayment FROM Payment JOIN Location ON Location.LocationID=Payment.LocationID -> GROUP BY Location.LocationID,Location.LocationName;
LocationID	LocationName	TotalPayment
831   832   833   834   835   836   837   838	Kumbakonam Delivery Express Trichy Courier Services Thanjai Courier Point Madurai Parcel Services Covai Express Delivery Pondy Couriers Salem Delivery Point Vellore Parcels Hosur Delivery Express	160.00   155.00   90.00   29.00   550.00   45.00   180.00   250.00   50.00
9 rows in set	(0.0013 sec)	, <del>-</del>

## 20. Retrieve couriers who have received payments totalling more than 1000 in a specific location (LocationID = X):

#### **OUERY**:

SELECT Courier.CourierID, Location.LocationName, SUM(Payment.Amount) AS TotalPayment FROM Courier JOIN Payment ON Courier.CourierID = Payment.CourierID JOIN Location ON Payment.LocationID = Location.LocationID WHERE Payment.LocationID = 831 GROUP BY Courier.CourierID, Location.LocationName HAVING TotalPayment > 1000;

```
MySQL localhost:3396 ssl couriermanagementdb SQL > /* Retrieve couriers who have received payments totaling more than $1000 in a specific location*/
MySQL localhost:3396 ssl couriermanagementdb SQL > /* Retrieve courierID, Location.LocationName,SUM(Payment.Amount) AS TotalPayment

-> FROM Courier JOIN Payment ON Courier.CourierID = Payment.CourierID

-> JOIN Location ON Payment.LocationID = Location.LocationID

-> WHERE Payment.LocationID = 831 GROUP BY Courier.CourierID, Location.LocationName

-> HAVING TotalPayment > 1000;

| CourierID | LocationName | TotalPayment |

215 | Kumbakonam Delivery Express | 1200.00 |

1 row in set (0.0012 sec)
```

# 21. Retrieve couriers who have received payments totalling more than \$1000 after a certain date (PaymentDate > 'YYYY-MM-DD'):

### **QUERY**:

SELECT Courier.CourierID, SUM(Payment.Amount) AS TotalPayment FROM Courier JOIN Payment ON Courier.CourierID = Payment.CourierID WHERE Payment.PaymentDate > '2025-06-10' GROUP BY Courier.CourierID HAVING TotalPayment > 1000;



# 22. Retrieve locations where the total amount received is more than \$5000 before a certain date (PaymentDate > 'YYYY-MM-DD'):

**QUERY**:

SELECT Location.LocationID, Location.LocationName, SUM(Payment.Amount) AS TotalReceived FROM Payment JOIN Location ON Payment.LocationID = Location.LocationID WHERE Payment.PaymentDate > '2025-06-10' GROUP BY Location.LocationID, LocationName HAVING TotalReceived > 5000;



# Task 4: Inner Join, Full Outer Join, Cross Join, Left Outer Join, Right Outer Join 23. Retrieve Payments with Courier Information:

**QUERY:** 

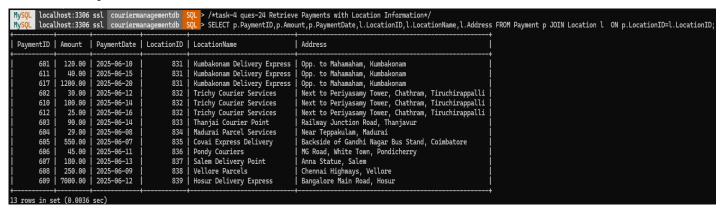
SELECT p.PaymentID,c.CourierID,c.SenderName,c.SenderAdress,c.ReceiverName,c.ReceiverAddress,c.Weight, c.Status,p.Amount, p.PaymentDate FROM Payment p JOIN Courier C ON c.CourierID=p.CourierID;

MySQL local	ySQL localhost:3306 ssl couriermanagementdb SQL > /*task-4 ques-23 Retrieve Payments with Courier Information*/ ySQL localhost:3306 ssl couriermanagementdb SQL > SELECT p.PaymentID,c.CourierID,c.SenderName,c.SenderAddress,c.ReceiverName,c.ReceiverAddress,c.Weight,c.Status,p.Amount,p.PaymentDate FROM Payment p JOIN courier c ON c.CourierID-p.CourierID;									
PaymentID	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress				PaymentDate	
601	201	Mr. Ramachandran	Chennai	Kavi	Hyderabad	2.80	Delivered	120.00	2025-06-10	
602	202	Agnes	Madurai	Revathi	Delhi	1.50	In Transit	30.00	2025-06-12	
603	203	Naveen	Coimbatore	Rekha	Bangalore	3.00	Yet to Dispatch	90.00	2025-06-14	
604	204	Lavanya	Kumbakonam	Deepa	Pune	4.20	Delivered	29.00	2025-06-08	
605	205	Mary	Tiruchirapalli	Meera	Lucknow	2.70	Cancelled	550.00	2025-06-07	
606	206	Kiran	Mumbai	Sahana	Chennai	1.90	In Transit	45.00	2025-06-11	
607	207	John	Coimbatore	Vijay	Kolkata	3.50	Yet to Dispatch	180.00	2025-06-13	
608	208	Ravi	Trichy	Ayesha	Jaipur	2.00	Delivered	250.00	2025-06-09	
609	209		Chennai	Arjun	Ahmedabad	3.80	In Transit	7000.00	2025-06-12	
610	210	Sundar	Madurai	Karthik	Delhi	1.30	Yet to Dispatch	100.00	2025-06-14	
611	209	Brindha	Chennai	Arjun	Ahmedabad	3.80	In Transit		2025-06-15	
612	210	Sundar	Madurai	Karthik	Delhi	1.30	Yet to Dispatch	25.00	2025-06-16	
617	215	Pooja	Kumbakonam	Arun	Bangalore	2.50	Delivered	1200.00	2025-06-20	
3 rows in se	t et (0.0085 se	+ ≥c)	+	<del> </del>	<b>!</b>	+		+	· <del>-</del>	

## 24. Retrieve Payments with Location Information:

**QUERY**:

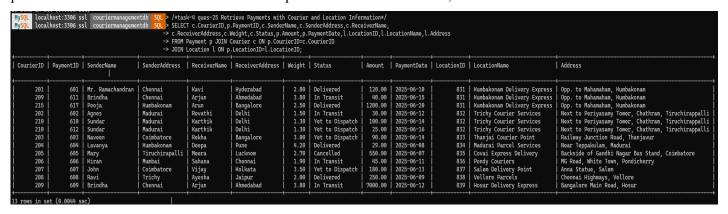
SELECT p.PaymentID,p.Amount,p.PaymentDate, l.LocationID,l.LocationName,l.Address FROM Payment p JOIN Location l ON p.LocationID=l.LocationID;



## 25. Retrieve Payments with Courier and Location Information:

### **QUERY**:

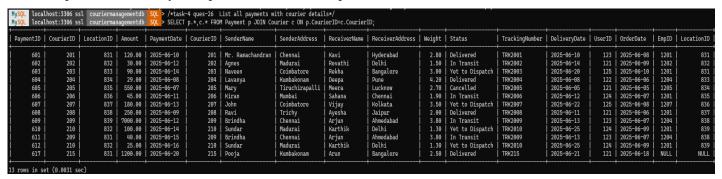
SELECT c.CourierID,p.PaymentID,c.SenderName,c,SenderAddress,c.ReceiverAddress,c.Weight,c.Status,p.Amount, p.PaymentDate,l.LocationID,l.LocationName,l.Address FROM Payment p JOIN Courier c ON p.CourierID=c.CourierID JOIN Location l On p.LocationID=l.LocationID;



## 26. List all payments with courier details:

#### **QUERY:**

SELECT p.\*,c.\* FROM Payment p JOIN Courier c ON p.CourierID=c.CourierID;



## 27. Total payments received for each courier:

### **QUERY:**

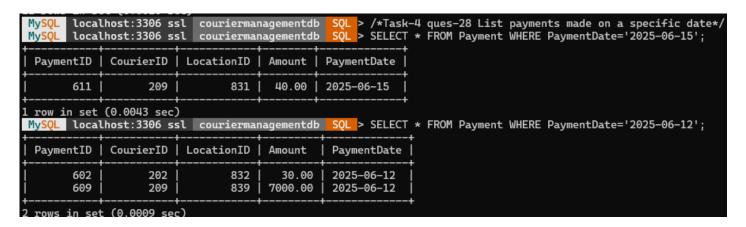
SELECT c.CourierID,c.SenderName,SUM(p.Amount) AS TotalPayment FROM Courier c JOIN Payment p ON p.CourierID=c.CourierID GROUP BY c.CourierID,c.SenderName;



## 28. List payments made on a specific date:

### **QUERY**:

- 1. SELECT \* FROM Payment WHERE PaymentDate='2025-06-15';
- 2. SELECT \* FROM Payment WHERE PaymentDate='2025-06-12';



## 29. Get Courier Information for Each Payment:

### **QUERY:**

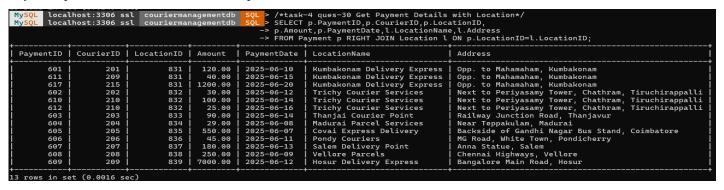
SELECT p.PaymentID,p.Amount,p.PaymentDate,c.CourierID,c.SenderName,c.ReceiverName,c.TrackingNumber FROM Payment AS p JOIN Courier AS c ON p.CourierID=c.CourierID;



## 30. Get Payment Details with Location:

#### **QUERY:**

SELECT p.PaymentID,p.CourierID,p.LocationID,p.Amount,p.PaymentDate,l.LocationName,l.Address FROM Payment p RIGHT JOIN Location l ON p.LocationID=l.LocationID;



## 31. Calculating Total Payments for Each Courier:

**QUERY**:

SELECT c.CourierID,SUM(p.Amount) AS TotalPayment FROM Courier AS c JOIN Payment AS p ON c.CourierID=p.CourierID GROUP BY c.CourierID;

```
    /*task-4 ques-31 Calculating Total Payments Total Last
    SELECT c.CourierID, SUM(p.Amount) AS TotalPayment FROM
    Courier AS c JOIN Payment AS p ON
    CourierID GROUP BY c.CourierID;

        localhost:3306 ssl couriermanagementdb
localhost:3306 ssl couriermanagementdb
                                                                                 /*task-4 ques-31 Calculating Total Payments for Each Courier*,
                                                                            -> c.CourierID = p.CourierID GROUP BY c.CourierID;
                  TotalPayment
CourierID
         201
                           120.00
         202
                            30.00
         203
                             90.00
         204
                            29.00
         205
                           550.00
         206
                            45.00
         207
                           180.00
         208
                           250.00
         209
                          7040.00
         210
                           125.00
         215
                          1200.00
         in set (0.0032 sec)
```

## 32. List Payments Within a Date Range:

**QUERY:** 

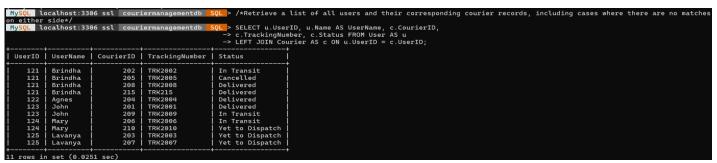
SELECT PaymentID, Amount FROM Payment WHERE PaymentDate BETWEEN '2025-06-10' AND '2025-06-15';

```
localhost:3306 ssl
                               couriermanagementdb
                                                               /*task-4 ques-32 List Payments Within a Date Range*/
                                                            > SELECT PaymentID, Amount FROM Payment WHERE PaymentDate
-> BETWEEN '2025-06-10' AND '2025-06-15';
       localhost:3306 ssl couriermanagementdb
PaymentID
              Amount
       601
               120.00
       602
                30.00
       603
                90.00
       606
                45.00
               180.00
       607
       609
              7000.00
               100.00
       610
                40.00
              (0.0008 sec)
```

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

**QUERY:** 

SELECT u.UserID,u.Name AS UserName, c.CourierID, c.TrackingNumber,c.Status FROM User AS u LEFT JOIN Courier AS c ON u.UserID=c.UserId;



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

### **QUERY**:

SELECT c.CourierID,c.TrackingNumber,s.ServiceID,s.ServiceName,s.Cost FROM Courier AS c LEFT JOIN CourierServices AS s ON c.ServiceID=s.ServiceID UNION SELECT

c.CourierID,c.TrackingNumber,s.ServiceID,s.ServiceName,s.Cost FROM Courier AS c RIGHT JOIN CourierServices AS s ON c.ServiceID=s.ServiceID;

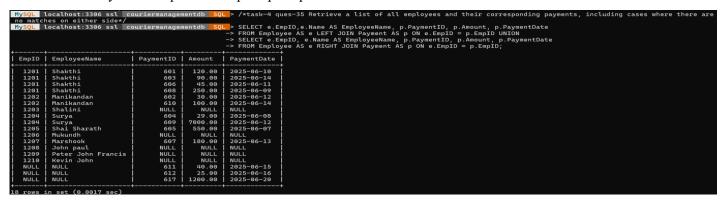
```
| MySQL | localhost:3306 ssl | couriermanagementdb | SQL | SELECT c.CourierID, c.TrackingNumber, s.ServiceID, s.ServiceID,
```

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

### **QUERY**:

SELECT e.EmpID,e.Name AS EmployeeName,p.PaymentID,p.Amount,p.PaymentDate FROM Employee AS e LEFT JOIN Payment AS p ON e.EmpID=p.EmpID UNION

SELECT e.EmpID,e.Name AS EmployeeName,p.PaymentID,p.Amount,p.PaymentDate FROM Employee AS e RIGHT JOIN Payment AS p ON e.EmpID=p.EmpID

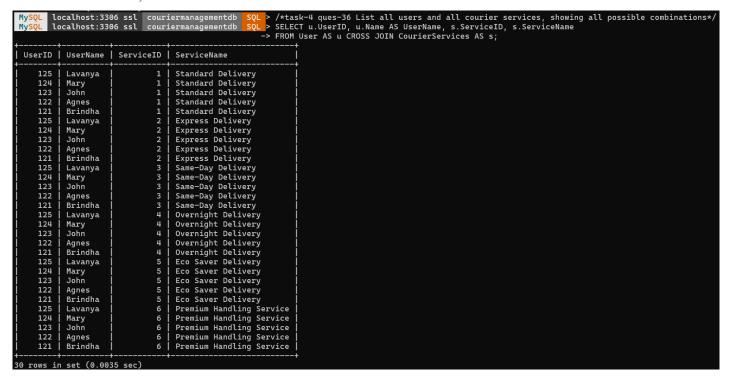


## 36. List all users and all courier services, showing all possible combinations:

### **QUERY:**

SELECT u.UserID, u.Name AS UserName, s.ServiceID, s.ServiceName FROM User AS u CROSS JOIN

CourierServices AS s;



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

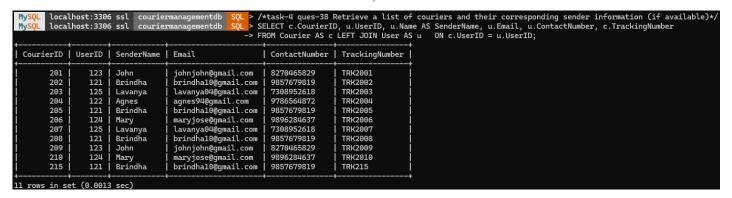
QUERY: SELECT e.EmpID,e.Name AS EmployeeName,l.LocationID,l.LocationName FROM Employee AS e CROSS JOIN loction AS 1;

	ocalhost:3306 ssl co ocalhost:3306 ssl co		ntdb   SQL   > SELECT e.EmpID, e	List all employees and all locations, showing all possible combinations*/ Name AS EmployeeName, l.LocationID, l.LocationName CROSS JOIN Location AS l;
EmpID	EmployeeName	LocationID	LocationName	
1201     1201	Shakthi   Shakthi	839   838	Hosur Delivery Express Vellore Parcels	
1201	Shakthi	837	Salem Delivery Point	
1201     1201	Shakthi Shakthi	836   835	Pondy Couriers Covai Express Delivery	
1201	Shakthi	834	Madurai Parcel Services	
1201     1201	Shakthi Shakthi	833   832	Thanjai Courier Point Trichy Courier Services	
1201	Shakthi	831	Kumbakonam Delivery Express	
1202     1202	Manikandan Manikandan	839   838	Hosur Delivery Express Vellore Parcels	
1202	Manikandan	837	Salem Delivery Point	
1202     1202	Manikandan Manikandan	836   835	Pondy Couriers Covai Express Delivery	
1202	Manikandan	834	Madurai Parcel Services	
1202     1202	Manikandan Manikandan	833   832	Thanjai Courier Point Trichy Courier Services	
1202	Manikandan	831	Kumbakonam Delivery Express	
1203     1203	Shalini Shalini	839   838	Hosur Delivery Express Vellore Parcels	
1203	Shalini	837	Salem Delivery Point	
1203     1203	Shalini Shalini	836   835	Pondy Couriers Covai Express Delivery	
1203	Shalini	834	Madurai Parcel Services	
1203     1203	Shalini Shalini	833   832	Thanjai Courier Point Trichy Courier Services	
1203	Shalini	831	Kumbakonam Delivery Express	
1204     1204	Surya Surya	839   838	Hosur Delivery Express Vellore Parcels	
1204	Surya	837	Salem Delivery Point	
1204     1204	Surya Surya	836   835	Pondy Couriers Covai Express Delivery	
1204	Surya	834	Madurai Parcel Services	
1204     1204	Surya Surya	833   832	Thanjai Courier Point Trichy Courier Services	
1204	Surya	831	Kumbakonam Delivery Express	
1205     1205	Shai Sharath Shai Sharath	839   838	Hosur Delivery Express Vellore Parcels	
1205	Shai Sharath	837	Salem Delivery Point	
1205     1205	Shai Sharath Shai Sharath	836   835	Pondy Couriers Covai Express Delivery	
1205	Shai Sharath	834	Madurai Parcel Services	
1205	Shai Sharath	833	Thanjai Courier Point	
1205	Shai Sharath	832	Trichy Courier Services	Ι
1205	Shai Sharath	831	Kumbakonam Delivery Express	
1206   1206	Mukundh   Mukundh	839 838	Hosur Delivery Express   Vellore Parcels	! 
1206	Mukundh	837	Salem Delivery Point	i
1206	Mukundh	836	Pondy Couriers	
1206   1206	Mukundh   Mukundh	835 834	Covai Express Delivery   Madurai Parcel Services	! 
1206	Mukundh	833	Thanjai Courier Point	İ
1206   1206	Mukundh	832	Trichy Courier Services	
1206	Mukundh   Marshook	831 839	Kumbakonam Delivery Express   Hosur Delivery Express	
1207	Marshook	838	Vellore Parcels	İ
1207	Marshook	837	Salem Delivery Point   Pondy Couriers	
1207   1207	Marshook   Marshook	836 835	Covai Express Delivery	
1207	Marshook	834	Madurai Parcel Services	
1207   1207	Marshook   Marshook	833 832	Thanjai Courier Point   Trichy Courier Services	
1207	Marshook   Marshook	831	Kumbakonam Delivery Express	
1208	John paul	839	Hosur Delivery Express	
1208   1208	John paul   John paul	838 837	Vellore Parcels   Salem Delivery Point	
1208	John paul	836	Pondy Couriers	
1208	John paul	835	Covai Express Delivery	
1208   1208	John paul   John paul	834 833	Madurai Parcel Services   Thanjai Courier Point	
1208	John paul	832	Trichy Courier Services	
1208	John paul	831	Kumbakonam Delivery Express	
1209   1209	Peter John Francis   Peter John Francis	839 838	Hosur Delivery Express   Vellore Parcels	
1209	Peter John Francis	837	Salem Delivery Point	i
1209	Peter John Francis	836	Pondy Couriers	
1209   1209	Peter John Francis   Peter John Francis	835 834	Covai Express Delivery   Madurai Parcel Services	
1209	Peter John Francis	833	Thanjai Courier Point	i
1209	Peter John Francis	832	Trichy Courier Services	
1209   1210	Peter John Francis   Kevin John	831 839	Kumbakonam Delivery Express   Hosur Delivery Express	
1210	Kevin John	838	Vellore Parcels	İ
1210	Kevin John   Kevin John	837	Salem Delivery Point	
1210	Kevin John   Kevin John	836 835	Pondy Couriers   Covai Express Delivery	
1210	Kevin John	834	Madurai Parcel Services	
1210   1210	Kevin John   Kevin John	833 832	Thanjai Courier Point   Trichy Courier Services	
	Kevin John   Kevin John	832	Trichy Courier Services   Kumbakonam Delivery Express	
÷	<del></del>	+	+	+
90 rows	in set (0.0011 sec)			

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

**QUERY**:

SELECT c.CourierID,u.UserID,u.Name AS SenderName,u.Email,u.ConatctNumber,c.TrackingNumber FROM Courier AS c LEFT JOIN User AS u ON c.UserID=u.UserID;



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

QUERY:

SELECT CourierID, ReceiverName, ReceiverAddress, TrackingNumber, DeliveryDate FROM Courier;

		couriermanagement couriermanagement		4 ques-39 Retrieve a list of couriers and their corresponding receiver information (if av CourierID, ReceiverName, ReceiverAddress, TrackingNumber, DeliveryDate FROM Courier;	railable)*/
CourierID	ReceiverName	ReceiverAddress	TrackingNumber	DeliveryDate	
201	Kavi	Hyderabad	TRK2001	2025-06-10	
202	Revathi	Delhi	TRK2002	2025-06-14	
203	Rekha	Bangalore	TRK2003	2025-06-20	
204	Deepa	Pune	TRK2004	2025-06-08	
205	Meera	Lucknow	TRK2005	2025-06-05	
206	Sahana	Chennai	TRK2006	2025-06-12	
207	Vijay	Kolkata	TRK2007	2025-06-22	
208	Ayesha	Jaipur	TRK2008	2025-06-11	
209	Arjun	Ahmedabad	TRK2009	2025-06-13	
210	Karthik	Delhi	TRK2010	2025-06-25	
215	Arun	Bangalore	TRK215	2025-06-21	
ll rows in se	 et (0.0007 sec)	+	ļ	<del></del>	

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

**QUERY:** 

SELECT c.CourierID,c.TrackingNumber,s.ServiceID,s.ServiceName,s.Cost FROM Courier AS c LEFT JOIN CourierServices AS s ON c.SevriceID=s.ServiceID;



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

**QUERY**:

SELECT e.EmpID,e.Name, COUNT(c.CourierID) AS CouriersHandled FROM Employee AS e LEFT JOIN Courier AS c ON e.EmpID=c.EmpID GROUP BY e.EmpID,e.Name;

		couriermanagementdb	<pre>SQL &gt; /*task-4 ques-41 Retrieve a list of couriers along with the courier service details (if available)*/ SQL &gt; SELECT e.EmpID, e.Name, COUNT(c.CourierID) AS CouriersHandled     -&gt; FROM Employee AS e LEFT JOIN Courier AS c ON e.EmpID = c.EmpID     -&gt; GROUP BY e.EmpID, e.Name;</pre>
EmpID		CouriersHandled	
1201	Shakthi	- <del></del> 5	
1202	Manikandan	j 1 j	
1203	Shalini	j 0 j	
1204	Surya	2	
1205	Shai Sharath	1	
1206	Mukundh	0	
1207	Marshook	1	
1208	John paul	0	
1209	Peter John Francis	0	
1210	Kevin John	0	
+ 10 rows	in set (0.0017 sec)	-+	

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

**QUERY**:

SELECT l.LocationID, l.LocationName, SUM(p.Amount) AS TotalPaymentReceived FROM Location AS 1 JOIN Payment AS p ON l.LocationID = p.LocationID GROUP BY l.LocationID, l.LocationName;

ived at each		<pre>tdb SQL &gt; /*task-4 ques-42 Retrieve a list of locations and the total payment amount tdb SQL &gt; SELECT l.LocationID, l.LocationName, SUM(p.Amount) AS TotalPaymentReceived     -&gt; FROM Location AS l JOIN Payment AS p ON l.LocationID = p.LocationID GROUP     -&gt; BY l.LocationID, l.LocationName;</pre>
LocationID	LocationName	TotalPaymentReceived
 831	Kumbakonam Delivery Express	1360.00
832	Trichy Courier Services	155.00
833	Thanjai Courier Point	90.00
834	Madurai Parcel Services	29.00
835	Covai Express Delivery	550.00
836	Pondy Couriers	45.00
837	Salem Delivery Point	180.00
838	Vellore Parcels	250.00
839	Hosur Delivery Express	7000.00

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

**QUERY**:

SELECT \* FROM Courier WHERE SenderName IN (SELECT SenderName FROM Courier GROUP BY SenderName HAVING COUNT(\*) > 1);

	NySQL localhost:3306 ssl couriermanagementdb SQL > /*Task-4 ques-43 Retrieve all couriers sent by the same sender (based on SenderName)*/ NySQL localhost:3306 ssl couriermanagementdb SQL > SELECT * FROM Courier WHERE SenderName IN (SELECT SenderName -> FROM Courier GROUP BY SenderName HAVING COUNT(*) > 1);												
CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	UserID	OrderDate	EmpID	LocationID	ServiceID
:	Lavanya Lavanya	Kumbakonam Kumbakonam	Deepa Meena	Pune Chennai		Delivered Delivered		2025-06-08 2025-06-21		2025-06-06 2025-06-18		833 831	2   NULL
2 rows in set	(0.0011 sec	) )		+				+			<b>+</b>		+

## 44. List all employees who share the same role:

### **QUERY**:

SELECT \* FROM Employee WHERE Role IN (SELECT Role FROM Employee GROUP BY Role HAVING COUNT(\*) > 1);

- ·	localhost:3306 : localhost:3306 :	3	SQL > SELECT *	ques-44 List all empl FROM Employee WHERE F M Employee GROUP BY Ro	Roĺe IN (SEL	ECT
EmpID	Name	Email	ContactNumber	Role	Salary	
1201   1203   1204   1205   1207   1208   1210	Shakthi Shalini Surya Shai Sharath Marshook John paul Kevin John	shakthi002@gmail.com   shalini4444@gmail.com   suryasekar@gmail.com   shaisharath@gmail.com   marshook09@gmail.com   pauljohn@gmail.com   kevin@gmail.com	9095866437 7205783480 9786453768 9629698774 7094555273 9678674587 8234758972	Delivery Executive Supervisor Delivery Executive Supervisor Delivery Executive Delivery Executive Delivery Executive	22000.00 30000.00 24000.00 35000.00 27000.00 29000.00	
7 rows in	set (0.0480 s	ec)				

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

### **QUERY**:

SELECT p.PaymentID, p.CourierID, p.Amount, p.PaymentDate, c.LocationID FROM Payment AS p JOIN Courier AS c ON p.CourierID = c.CourierID WHERE c.LocationID IN (SELECT LocationID FROM Courier GROUP BY LocationID HAVING COUNT(\*) > 1);

				<pre>SQL &gt; /*task-4 ques-45 Retrieve all payments made for couriers sent from the same location*/ SQL &gt; SELECT p.PaymentID, p.CourierID, p.Amount, p.PaymentDate, c.LocationID    -&gt; FROM Payment AS p JOIN Courier AS c ON p.CourierID = c.CourierID    -&gt; WHERE c.LocationID IN (SELECT LocationID    -&gt; FROM Courier GROUP BY LocationID HAVING COUNT(*) &gt; 1);</pre>
PaymentID	CourierID	Amount	PaymentDate	LocationID
601     603	201   203	120.00 90.00		831   831   831
2 rows in set	: (0.0020 sec	:)		<del></del>

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

## QUERY:

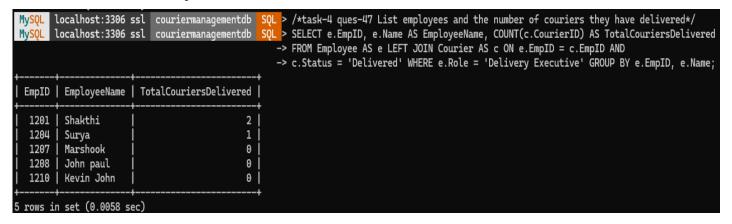
SELECT CourierID, SenderName, SenderAddress, ReceiverName, ReceiverAddress, Weight, Status, TrackingNumber, DeliveryDate FROM Courier WHERE SenderAddress IN (SELECT SenderAddress FROM Courier GROUP BY SenderAddress HAVING COUNT(\*) > 1);

	lhost:3306 ssl cou lhost:3306 ssl cou		SQL > SELECT ( -> FROM Co	CourierID,SenderNa urier WHERE Sender	me,Sender. Address I		ame, ReceiverAddr dress FROM		ldress)*/ :us,TrackingNumber, Deli
CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	
201	Mr. Ramachandran	   Chennai	   Kavi	+   Hyderabad	2.80	   Delivered	TRK2001	2025-06-10	
202	Agnes	Madurai	Revathi	Delhi	1.50	In Transit	TRK2002	2025-06-14	
203	Naveen	Coimbatore	Rekha	Bangalore	3.00	Yet to Dispatch	TRK2003	2025-06-20	
204	Lavanya	Kumbakonam	Deepa	Pune	4.20	Delivered	TRK2004	2025-06-08	
207	John	Coimbatore	Vijay	Kolkata	3.50	Yet to Dispatch	TRK2007	2025-06-22	
209	Brindha	Chennai	Arjun	Ahmedabad	3.80	In Transit	TRK2009	2025-06-13	
210	Sundar	Madurai	Karthik	Delhi	1.30	Yet to Dispatch	TRK2010	2025-06-25	
215	Pooja	Kumbakonam	Arun	Bangalore	2.50	Delivered	TRK215	2025-06-21	
226	Lavanya	Kumbakonam	Meena	Chennai	1.50	Delivered	İ TRK220	2025-06-21	

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

**OUERY**:

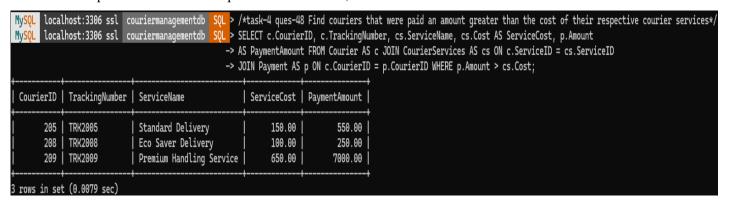
SELECT e.EmpID, e.Name AS EmployeeName, COUNT(c.CourierID) AS TotalCouriersDelivered FROM Employee AS e LEFT JOIN Courier AS c ON e.EmpID = c.EmpID AND c.Status = 'Delivered' WHERE e.Role = 'Delivery Executive' GROUP BY e.EmpID, e.Name;



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

**QUERY:** 

SELECT c.CourierID, c.TrackingNumber, cs.ServiceName, cs.Cost AS ServiceCost, p.Amount AS PaymentAmount FROM Courier AS c JOIN CourierServices AS cs ON c.ServiceID = cs.ServiceID JOIN Payment AS p ON c.CourierID = p.CourierID WHERE p.Amount > cs.Cost;



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

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

**QUERY:** 

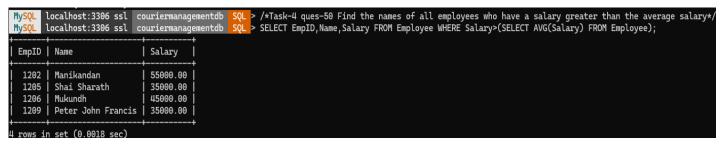
SELECT \* FROM Courier WHERE Weight> (SELECT AVG(Weight) FROM Courier);

	ySQL localhost:3306 ssl couriermanagementdb SQL > /*task-4 ques-49 Find couriers that have a weight greater than the average weight of all couriers*/ ySQL localhost:3306 ssl couriermanagementdb SQL > SELECT * FROM Courier WHERE Weight> (SELECT AVG(Weight) FROM Courier);												
CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	UserID	OrderDate	EmpID	LocationID	ServiceID
201	Mr. Ramachandran	Chennai	   Kavi	Hyderabad	2.80	Delivered	TRK2001	2025-06-10	123	   2025-06-08	1201	831	1
203	Naveen	Coimbatore	Rekha	Bangalore	3.00	Yet to Dispatch	TRK2003	2025-06-20	125	2025-06-10	1201	831	1
204	Lavanya	Kumbakonam	Deepa	Pune	4.20	Delivered	TRK2004	2025-06-08	122	2025-06-06	1204	833	2
205	Mary	Tiruchirapalli	Meera	Lucknow	2.70	Cancelled	TRK2005	2025-06-05	121	2025-06-05	1205	834	1
207	John	Coimbatore	Vijay	Kolkata	3.50	Yet to Dispatch	TRK2007	2025-06-22	125	2025-06-08	1207	836	4 [
209	Brindha	Chennai	Arjun	Ahmedabad	3.80	In Transit	TRK2009	2025-06-13	123	2025-06-07	1204	838	6
+ 6 rows in set	(0.0039 sec)	+	+	+	+	+	+	+	+	+	+	<b>!</b>	·

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

QUERY:

SELECT EmpID, Name, Salary FROM Employee WHERE Salary > (SELECT AVG(Salary) FROM Employee);



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

**QUERY**:

SELECT ServiceName, SUM(Cost) AS TotalCost FROM CourierServices WHERE Cost<(SELECT MAX(Cost)

FROM CourierServices) GROUP BY ServiceName;



## 52. Find all couriers that have been paid for:

**QUERY**:

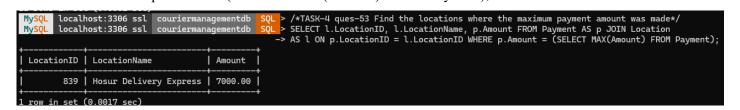
SELECT \* FROM Courier WHERE CourierID IN (SELECT CourierID FROM Payment);

						:							
CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate	UserID	OrderDate	EmpID	LocationID	ServiceI
201	Mr. Ramachandran	Chennai	Kavi	Hyderabad	2.80	Delivered	TRK2001	2025-06-10	123	2025-06-08	1201	831	
202	Agnes	Madurai	Revathi	Delhi	1.50	In Transit	TRK2002	2025-06-14	121	2025-06-09	1202	832	
203	Naveen	Coimbatore	Rekha	Bangalore	3.00	Yet to Dispatch	TRK2003	2025-06-20	125	2025-06-10	1201	831	
204	Lavanya	Kumbakonam	Deepa	Pune	4.20	Delivered	TRK2004	2025-06-08	122	2025-06-06	1204	833	
205	Mary	Tiruchirapalli	Meera	Lucknow	2.70	Cancelled	TRK2005	2025-06-05	121	2025-06-05	1205	834	
206	Kiran	Mumbai	Sahana	Chennai	1.90	In Transit	TRK2006	2025-06-12	124	2025-06-07	1201	835	
207	John	Coimbatore	Vijay	Kolkata	3.50	Yet to Dispatch	TRK2007	2025-06-22	125	2025-06-08	1207	836	
208	Ravi	Trichy	Ayesha	Jaipur	2.00	Delivered	TRK2008	2025-06-11	121	2025-06-06	1201	837	
209	Brindha	Chennai	Arjun	Ahmedabad	3.80	In Transit	TRK2009	2025-06-13	123	2025-06-07	1204	838	
210	Sundar	Madurai	Karthik	Delhi	1.30	Yet to Dispatch	TRK2010	2025-06-25	124	2025-06-09	1201	839	NU
215	Pooja	Kumbakonam	Arun	Bangalore	2.50	Delivered	TRK215	2025-06-21	121	2025-06-18	NULL	NULL	NU NU

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

**QUERY**:

SELECT l.LocationID, l.LocationName, p.Amount FROM Payment AS p JOIN Location AS l ON p.LocationID = l.LocationID WHERE p.Amount = (SELECT MAX(Amount) FROM Payment);



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

**QUERY**:

- 1. SELECT \* FROM Courier WHERE Weight > ALL (SELECT Weight FROM Courier WHERE SenderName = 'Brindha');
- 2. SELECT \* FROM Courier WHERE Weight > ALL (SELECT Weight FROM Courier WHERE SenderName = 'Pooja');

