

ASSIGNMENT-3

1)

```
mysql> create table user (UserID INT PRIMARY KEY,
```

```
-> Name VARCHAR(255),
```

```
-> Email VARCHAR(255) UNIQUE,
```

```
-> Password VARCHAR(255),
```

```
-> ContactNumber VARCHAR(20),
```

```
-> Address TEXT
```

```
-> );
```

```
INSERT INTO user (UserID, Name, Email, Password, ContactNumber, Address)
```

```
-> VALUES
```

```
-> (1, 'John', 'john@example.com', 'password123', '123-456-7890', 'City1'),
```

```
-> (2, 'Jane', 'jane@example.com', 'pass456', '987-654-3210', 'City2'),
```

```
-> (3, 'Bob', 'bob@example.com', 'securePass', '111-222-3333', 'City3'),
```

```
-> (4, 'Alice', 'aliceexample.com', 'mySecret', '555-444-7777', 'City4');
```

| UserID | Name | Email | Password | ContactNumber | Address |
|--------|-------|------------------|-------------|---------------|---------|
| 1 | John | john@example.com | password123 | 123-456-7890 | City1 |
| 2 | Jane | jane@example.com | pass456 | 987-654-3210 | City2 |
| 3 | Bob | bob@example.com | securePass | 111-222-3333 | City3 |
| 4 | Alice | aliceexample.com | mySecret | 555-444-7777 | City4 |

2)

```
> create table Courier(
```

```
-> 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);
```

```
INSERT INTO Courier (CourierID, SenderName, SenderAddress, ReceiverName,
```

```
-> ReceiverAddress, Weight, Status, TrackingNumber, DeliveryDate)
```

```
-> VALUES
```

```
-> (1, 'John ', ' City1', ' Smith', 'City2', 2.5, 'In Transit', 'ABC123', '2023-01-10'),  
-> (2, 'Alice ', 'City4', ' Johnson', 'City3', 1.8, 'Delivered', 'DEF456', '2023-01-15'),  
-> (3, 'Charlie ', 'City5', ' Davis', 'City6', 3.0, 'Pending', 'GHI789', NULL),  
-> (4, 'Frank ', 'City7', ' Miller', 'City8', 4.2, 'In Transit', 'JKL012', '2023-01-20');
```

3)

create table CourierServices

```
(ServiceID INT PRIMARY KEY,  
ServiceName VARCHAR(100),  
Cost DECIMAL(8, 2));
```

INSERT INTO CourierServices (ServiceID, ServiceName, Cost)

```
-> VALUES  
-> (1, 'Standard Delivery', 10.99),  
-> (2, 'Express Delivery', 24.99),  
-> (3, 'Same Day Delivery', 39.99),  
-> (4, 'International Shipping', 49.99),  
-> (5, 'Overnight Delivery', 29.99);
```

| ServiceID | ServiceName | Cost |
|-----------|------------------------|-------|
| 1 | Standard Delivery | 10.99 |
| 2 | Express Delivery | 24.99 |
| 3 | Same Day Delivery | 39.99 |
| 4 | International Shipping | 49.99 |
| 5 | Overnight Delivery | 29.99 |

4)

create table Employee

```
-> (EmployeeID INT PRIMARY KEY,  
-> Name VARCHAR(255),  
-> Email VARCHAR(255) UNIQUE,  
-> ContactNumber VARCHAR(20),  
-> Role VARCHAR(50),  
-> Salary DECIMAL(10, 2));
```

INSERT INTO Employee (EmployeeID, Name, Email, ContactNumber, Role, Salary)

-> VALUES

-> (1, 'Manager A', 'managerA@gmail.com', '5551112222', 'Manager', 60000.00),

-> (2, 'Courier Driver B', 'driverB@gmail.com', '555334444', 'Driver', 45000.00),

-> (3, 'Office Staff C', 'staffC@gmail.com', '5555556666', 'Office Staff', 35000.00),

-> (4, 'Courier Driver D', 'driverD@gmail.com', '5557778888', 'Driver', 47000.00),

-> (5, 'Manager E', 'managerE@gmail.com', '5559990000', 'Manager', 62000.00);

| EmployeeID | Name | Email | ContactNumber | Role | Salary |
|------------|------------------|--------------------|---------------|--------------|----------|
| 1 | Manager A | managerA@gmail.com | 5551112222 | Manager | 60000.00 |
| 2 | Courier Driver B | driverB@gmail.com | 555334444 | Driver | 45000.00 |
| 3 | Office Staff C | staffC@gmail.com | 5555556666 | Office Staff | 35000.00 |
| 4 | Courier Driver D | driverD@gmail.com | 5557778888 | Driver | 47000.00 |
| 5 | Manager E | managerE@gmail.com | 5559990000 | Manager | 62000.00 |

5)

create table Location

-> (LocationID INT PRIMARY KEY,

-> LocationName VARCHAR(100),

-> Address TEXT);

INSERT INTO Location (LocationID, LocationName, Address)

-> VALUES

-> (1, 'City1 ', '123 , City1'),

-> (2, 'City2 ', '456 , City2'),

-> (3, 'City3 ', '789 , City3'),

-> (4, 'City4 ', '101 , City4'),

-> (5, 'City5 ', '202 , City5');

| LocationID | LocationName | Address |
|------------|--------------|-------------|
| 1 | City1 | 123 , City1 |
| 2 | City2 | 456 , City2 |
| 3 | City3 | 789 , City3 |
| 4 | City4 | 101 , City4 |
| 5 | City5 | 202 , City5 |

6)

```
mysql> create table Payment
```

```
-> (PaymentID INT PRIMARY KEY,
```

```
-> CourierID INT,
```

```
-> LocationId INT,
```

```
-> Amount DECIMAL(10, 2),
```

```
-> PaymentDate DATE,
```

```
-> FOREIGN KEY (CourierID) REFERENCES Couriers(CourierID),
```

```
-> FOREIGN KEY (LocationID) REFERENCES Location(LocationID));
```

```
mysql> INSERT INTO Payment (PaymentID, CourierID, LocationID, Amount, PaymentDate)
```

```
-> VALUES
```

```
-> (1, 1, 2, 15.99, '2023-01-12'),
```

```
-> (2, 2, 4, 20.50, '2023-01-18'),
```

```
-> (3, 3, 1, 29.99, '2023-01-22'),
```

```
-> (4, 4, 3, 25.00, '2023-01-28'),
```

```
-> (5, 5, 5, 12.75, '2023-02-01');
```

| PaymentID | CourierID | LocationId | Amount | PaymentDate |
|-----------|-----------|------------|--------|-------------|
| 1 | 1 | 2 | 15.99 | 2023-01-12 |
| 2 | 2 | 4 | 20.50 | 2023-01-18 |
| 3 | 3 | 1 | 29.99 | 2023-01-22 |
| 4 | 4 | 3 | 25.00 | 2023-01-28 |
| 5 | 5 | 5 | 12.75 | 2023-02-01 |

Task-2

1) SELECT * FROM Users;

| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
|-----------|------------|---------------|--------------|-----------------|--------|------------|----------------|--------------|
| 1 | John | City1 | Smith | City2 | 2.50 | In Transit | ABC123 | 2023-01-10 |
| 2 | Alice | City4 | Johnson | City3 | 1.80 | Delivered | DEF456 | 2023-01-15 |
| 3 | Charlie | City5 | Davis | City6 | 3.00 | Pending | GHI789 | NULL |
| 4 | Frank | City7 | Miller | City8 | 4.20 | In Transit | JKL012 | 2023-01-20 |

2) SELECT * FROM courier where SenderName = 'john';

3) SELECT * FROM courier;

| SenderName | ReceiverName |
|------------|--------------|
| John | Smith |
| Alice | Johnson |
| Charlie | Davis |
| Frank | Miller |

4)

SELECT * FROM courier where TrackingNumber = 'DEF456';

| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
|-----------|------------|---------------|--------------|-----------------|--------|-----------|----------------|--------------|
| 2 | Alice | City4 | Johnson | City3 | 1.80 | Delivered | DEF456 | 2023-01-15 |

5)

SELECT * FROM courier where CourierId = 4;

| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
|-----------|------------|---------------|--------------|-----------------|--------|------------|----------------|--------------|
| 4 | Frank | City7 | Miller | City8 | 4.20 | In Transit | JKL012 | 2023-01-20 |

6)

SELECT * FROM courier where status != 'Delivered';

| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
|-----------|------------|---------------|--------------|-----------------|--------|------------|----------------|--------------|
| 1 | John | City1 | Smith | City2 | 2.50 | In Transit | ABC123 | 2023-01-10 |
| 3 | Charlie | City5 | Davis | City6 | 3.00 | Pending | GHI789 | NULL |
| 4 | Frank | City7 | Miller | City8 | 4.20 | In Transit | JKL012 | 2023-01-20 |

7)

SELECT * FROM courier where DeliveryDate = current_date();

```
mysql> SELECT * FROM courier where DeliveryDate = current_date();
Empty set (0.00 sec)
```

8)

SELECT * FROM courier where status = "Shipped";

```
mysql> SELECT * FROM courier where status ="Shipped";
Empty set (0.00 sec)
```

9)

SELECT CourierId, TrackingNumber (SELECT count(*) from c2 where c2.CourierId =
Couriers.CourierId) AS TotalPackages from couriers;

10)

11) SELECT * FROM Courier where weight >= 5;

| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
|-----------|------------|---------------|--------------|-----------------|--------|------------|----------------|--------------|
| 1 | John | City1 | Smith | City2 | 2.50 | In Transit | ABC123 | 2023-01-10 |
| 2 | Alice | City4 | Johnson | City3 | 1.80 | Delivered | DEF456 | 2023-01-15 |
| 3 | Charlie | City5 | Davis | City6 | 3.00 | Pending | GHI789 | NULL |
| 4 | Frank | City7 | Miller | City8 | 4.20 | In Transit | JKL012 | 2023-01-20 |

12)

SELECT * from employee where Name = 'John';

14)

SELECT EmployeeID, COUNT(CourierID) AS TotalCouriersHandled FROM Courier GROUP BY
EmployeeID;

15)

select l.locationid, l.locationname, sum(p.amount) as totalrevenue

-> from location l left join payment p on l.locationid = p.locationid

-> group by l.locationid, l.locationname;

| locationid | locationname | totalrevenue |
|------------|--------------|--------------|
| 1 | City1 | 29.99 |
| 2 | City2 | 15.99 |
| 3 | City3 | 25.00 |
| 4 | City4 | 20.50 |
| 5 | City5 | 12.75 |

16)

select receiveraddress as location, count(*) as couriercount

-> from courier group by receiveraddress;

| location | couriercount |
|----------|--------------|
| City2 | 1 |
| City3 | 1 |
| City6 | 1 |
| City8 | 1 |

18)

select locationid, sum(amount) as totalpayments

-> from payment group by locationid having totalpayments < 120;

| locationid | totalpayments |
|------------|---------------|
| 1 | 29.99 |
| 2 | 15.99 |
| 3 | 25.00 |
| 4 | 20.50 |
| 5 | 12.75 |

19)

select locationid, sum(amount) as totalpayments

-> from payment group by locationid;

| locationid | totalpayments |
|------------|---------------|
| 1 | 29.99 |
| 2 | 15.99 |
| 3 | 25.00 |
| 4 | 20.50 |
| 5 | 12.75 |

20)

```
mysql> select c.courierid, c.sendername, c.receivername, sum(p.amount) as totalpayments
      -> from courier c join payment p on c.courierid = p.courierid
      -> where p.locationid = 1 group by c.courierid having totalpayments > 10000;
Empty set (0.00 sec)
```

21)

```
mysql> Select c.courierID, c.senderName, c.senderaddress ,
      -> sum(p.amount) as totalamount from courier c join payment
p on c.courierid = p.courierid
      -> where p.paymentdate > '2023-01-01' group by c.courierid having totalamount>1000;
Empty set (0.00 sec)
```

22)

```
mysql> select l.locationid, l.locationname, sum(p.amount) as totalpayments from location l join payment p on l.locationid = p.locationid where p.paymentdate > '2023-01-01' group by l.locationid having totalpayments > 5000;
Empty set (0.00 sec)
```

23)

select p.paymentid, p.courierid, c.sendername as sender, c.senderaddress as

-> senderaddress, c.receivername as receiver, c.receiveraddress as

-> receiveraddress, c.weight, c.status, c.trackingnumber, c.deliverydate, p.locationid,

Gautam Sharma

-> p.amount, p.paymentdate

-> from payment p join courier c on p.courierid = c.courierid

-> ;

| paymentid | courierid | sender | senderaddress | receiver | receiveraddress | weight | status | trackingnumber | deliverydate |
|------------|-----------|-------------|---------------|----------|-----------------|--------|------------|----------------|--------------|
| locationid | amount | paymentdate | | | | | | | |
| 1 | 1 | John | City1 | Smith | City2 | 2.50 | In Transit | ABC123 | 2023-01-10 |
| 2 | 15.99 | 2023-01-12 | | | | | | | |
| 2 | 2 | Alice | City4 | Johnson | City3 | 1.80 | Delivered | DEF456 | 2023-01-15 |
| 4 | 20.50 | 2023-01-18 | | | | | | | |
| 3 | 3 | Charlie | City5 | Davis | City6 | 3.00 | Pending | GHI789 | NULL |
| 1 | 29.99 | 2023-01-22 | | | | | | | |
| 4 | 4 | Frank | City7 | Miller | City8 | 4.20 | In Transit | JKL012 | 2023-01-20 |
| 3 | 25.00 | 2023-01-28 | | | | | | | |

24)

select p.paymentid, p.courierid, l.locationid, l.address, l.locationname, p.amount,

-> p.paymentdate from payment p join location l on p.locationid = l.locationid;

| paymentid | courierid | locationid | address | locationname | amount | paymentdate |
|-----------|-----------|------------|-------------|--------------|--------|-------------|
| 1 | 1 | 2 | 456 , City2 | City2 | 15.99 | 2023-01-12 |
| 2 | 2 | 4 | 101 , City4 | City4 | 20.50 | 2023-01-18 |
| 3 | 3 | 1 | 123 , City1 | City1 | 29.99 | 2023-01-22 |
| 4 | 4 | 3 | 789 , City3 | City3 | 25.00 | 2023-01-28 |
| 5 | 5 | 5 | 202 , City5 | City5 | 12.75 | 2023-02-01 |

25)

select p.paymentid, p.courierid, l.locationid, c.sendername as sender,

-> c.receivername , c.trackingnumber, c.deliverydate, l.locationname, l.address from

-> payment p join courier c on p.courierid = c.courierid join location l on p.locationid =

-> l.locationid;

| paymentid | courierid | locationid | sender | receivername | trackingnumber | deliverydate | locationname | address |
|-----------|-----------|------------|---------|--------------|----------------|--------------|--------------|-------------|
| 1 | 1 | 2 | John | Smith | ABC123 | 2023-01-10 | City2 | 456 , City2 |
| 2 | 2 | 4 | Alice | Johnson | DEF456 | 2023-01-15 | City4 | 101 , City4 |
| 3 | 3 | 1 | Charlie | Davis | GHI789 | NULL | City1 | 123 , City1 |
| 4 | 4 | 3 | Frank | Miller | JKL012 | 2023-01-20 | City3 | 789 , City3 |

26)

```

SELECT c.CourierID, c.TrackingNumber, c.SenderName, c.ReceiverName, c.Weight,
-> c.Status, c.DeliveryDate, SUM(p.Amount) AS TotalPayments
-> FROM Courier c
-> JOIN Payment p ON c.CourierID = p.CourierID
-> GROUP BY c.CourierID, c.TrackingNumber, c.SenderName, c.ReceiverName, c.Weight,
-> c.Status, c.DeliveryDate;

```

```

mysql> select p.paymentid, p.courierid, c.sendername, c.senderaddress, c.receivername,
-> c.receiveraddress , c.weight, c.status, c.trackingnumber,
-> c.deliverydate , p.locationid, p.amount, p.paymentdate
-> from payment p inner join courier c on p.courierid = c.courierid;

```

| paymentid | courierid | sendername | senderaddress | receivername | receiveraddress | weight | status | trackingnumber | deliverydate | locationid | amount | paymentdate |
|-----------|-----------|------------|---------------|--------------|-----------------|--------|------------|----------------|--------------|------------|--------|-------------|
| 1-10 | 1 | John | City1 | Smith | City2 | 2.50 | In Transit | ABC123 | 2023-01-10 | 2 | 15.99 | 2023-01-12 |
| 1-15 | 2 | Alice | City4 | Johnson | City3 | 1.80 | Delivered | DEF456 | 2023-01-15 | 4 | 20.50 | 2023-01-18 |
| | 3 | Charlie | City5 | Davis | City6 | 3.00 | Pending | GHI789 | | 1 | 29.99 | 2023-01-22 |
| 1-20 | 4 | Frank | City7 | Miller | City8 | 4.20 | In Transit | JKL012 | 2023-01-20 | 3 | 25.00 | 2023-01-28 |

27)

| CourierID | TrackingNumber | SenderName | ReceiverName | Weight | Status | DeliveryDate | TotalPayments |
|-----------|----------------|------------|--------------|--------|------------|--------------|---------------|
| 1 | ABC123 | John | Smith | 2.50 | In Transit | 2023-01-10 | 15.99 |
| 2 | DEF456 | Alice | Johnson | 1.80 | Delivered | 2023-01-15 | 20.50 |
| 3 | GHI789 | Charlie | Davis | 3.00 | Pending | NULL | 29.99 |
| 4 | JKL012 | Frank | Miller | 4.20 | In Transit | 2023-01-20 | 25.00 |

4 rows in set (0.00 sec)

28)

```

select p.paymentid, p.courierid, p.locationid, p.amount, p.paymentdate,
-> c.sendername, c.receivername from courier c right join payment p on
-> c.courierid = p.courierid
-> where p.paymentdate = '2023-01-12';

```

| paymentid | courierid | locationid | amount | paymentdate | sendername | receivername |
|-----------|-----------|------------|--------|-------------|------------|--------------|
| 1 | 1 | 2 | 15.99 | 2023-01-12 | John | Smith |

29)

```
select * from payment p join courier c on p.courierid = c.courierid;
```

| PaymentID | CourierID | LocationID | Amount | PaymentDate | CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress |
|-----------|------------|----------------|--------------|-------------|-----------|------------|---------------|--------------|-----------------|
| Weight | Status | TrackingNumber | DeliveryDate | | | | | | |
| 1 | 1 | 2 | 15.99 | 2023-01-12 | 1 | John | City1 | Smith | City2 |
| 2.50 | In Transit | ABC123 | | 2023-01-10 | | | | | |
| 2 | 2 | 4 | 20.50 | 2023-01-18 | 2 | Alice | City4 | Johnson | City3 |
| 1.80 | Delivered | DEF456 | | 2023-01-15 | | | | | |
| 3 | 3 | 1 | 29.99 | 2023-01-22 | 3 | Charlie | City5 | Davis | City6 |
| 3.00 | Pending | GHI789 | | NULL | | | | | |
| 4 | 4 | 3 | 25.00 | 2023-01-28 | 4 | Frank | City7 | Miller | City8 |
| 4.20 | In Transit | JKL012 | | 2023-01-20 | | | | | |

30)

```
mysql> SELECT CourierID, MAX(AVG(DeliveryTime)) AS HighestAverageDeliveryTime
```

```
-> FROM (SELECT CourierID, AVG(DATEDIFF(DeliveryDate, OrderDate)) AS DeliveryTime FROM
Orders
```

```
-> GROUP BY CourierID) AS AvgDeliveryTimes;
```

```
ERROR 1054 (42S22): Unknown column 'CourierID' in 'field list'
```

```
mysql> SELECT p.PaymentID, p.Amount, p.PaymentDate, l.LocationID, l.LocationName
```

```
-> FROM Payment p JOIN Location l ON p.LocationID = l.LocationID;
```

| PaymentID | Amount | PaymentDate | LocationID | LocationName |
|-----------|--------|-------------|------------|--------------|
| 1 | 15.99 | 2023-01-12 | 2 | City2 |
| 2 | 20.50 | 2023-01-18 | 4 | City4 |
| 3 | 29.99 | 2023-01-22 | 1 | City1 |
| 4 | 25.00 | 2023-01-28 | 3 | City3 |
| 5 | 12.75 | 2023-02-01 | 5 | City5 |

31)

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

| CourierID | TrackingNumber | TotalPayments |
|-----------|----------------|---------------|
| 1 | ABC123 | 15.99 |
| 2 | DEF456 | 20.50 |
| 3 | GHI789 | 29.99 |
| 4 | JKL012 | 25.00 |

4 rows in set (0.00 sec)

32)

select p.paymentid, p.courierid, p.locationid, p.amount, p.paymentdate,

-> c.sendername, c.receivername

-> from payment p left join courier c on p.courierid = c.courierid

-> where p.paymentdate between '2023-01-01' and '2023-12-12';

| paymentid | courierid | locationid | amount | paymentdate | sendername | receivername |
|-----------|-----------|------------|--------|-------------|------------|--------------|
| 1 | 1 | 2 | 15.99 | 2023-01-12 | John | Smith |
| 2 | 2 | 4 | 20.50 | 2023-01-18 | Alice | Johnson |
| 3 | 3 | 1 | 29.99 | 2023-01-22 | Charlie | Davis |
| 4 | 4 | 3 | 25.00 | 2023-01-28 | Frank | Miller |
| 5 | 5 | 5 | 12.75 | 2023-02-01 | NULL | NULL |

5 rows in set (0.00 sec)

33)

select u.userid, u.username, c.courierid, c.sendername, c.receivername, c.weight, c.status,
c.trackingnumber, c.deliverydate from users u outer join on courier c u.userid = c.userid

36)

select u.userid, u.name, c.serviceid, c.serviceid, c.servicename

-> from user u

-> cross join courierservices c;

| userid | name | serviceid | serviceid | servicename |
|--------|-------|-----------|-----------|------------------------|
| 4 | Alice | 1 | 1 | Standard Delivery |
| 3 | Bob | 1 | 1 | Standard Delivery |
| 2 | Jane | 1 | 1 | Standard Delivery |
| 1 | John | 1 | 1 | Standard Delivery |
| 4 | Alice | 2 | 2 | Express Delivery |
| 3 | Bob | 2 | 2 | Express Delivery |
| 2 | Jane | 2 | 2 | Express Delivery |
| 1 | John | 2 | 2 | Express Delivery |
| 4 | Alice | 3 | 3 | Same Day Delivery |
| 3 | Bob | 3 | 3 | Same Day Delivery |
| 2 | Jane | 3 | 3 | Same Day Delivery |
| 1 | John | 3 | 3 | Same Day Delivery |
| 4 | Alice | 4 | 4 | International Shipping |
| 3 | Bob | 4 | 4 | International Shipping |
| 2 | Jane | 4 | 4 | International Shipping |
| 1 | John | 4 | 4 | International Shipping |
| 4 | Alice | 5 | 5 | Overnight Delivery |
| 3 | Bob | 5 | 5 | Overnight Delivery |
| 2 | Jane | 5 | 5 | Overnight Delivery |
| 1 | John | 5 | 5 | Overnight Delivery |

37)

select * from employee cross join location ;

| EmployeeID | Name | Email | ContactNumber | Role | Salary | LocationID | LocationName | Address |
|------------|------------------|--------------------|---------------|--------------|----------|------------|--------------|-------------|
| 5 | Manager E | managerE@gmail.com | 5559990000 | Manager | 62000.00 | 1 | City1 | 123 , City1 |
| 4 | Courier Driver D | driverD@gmail.com | 5557778888 | Driver | 47000.00 | 1 | City1 | 123 , City1 |
| 3 | Office Staff C | staffC@gmail.com | 5555556666 | Office Staff | 35000.00 | 1 | City1 | 123 , City1 |
| 2 | Courier Driver B | driverB@gmail.com | 5553344444 | Driver | 45000.00 | 1 | City1 | 123 , City1 |
| 1 | Manager A | managerA@gmail.com | 5551112222 | Manager | 60000.00 | 1 | City1 | 123 , City1 |
| 5 | Manager E | managerE@gmail.com | 5559990000 | Manager | 62000.00 | 2 | City2 | 456 , City2 |
| 4 | Courier Driver D | driverD@gmail.com | 5557778888 | Driver | 47000.00 | 2 | City2 | 456 , City2 |
| 3 | Office Staff C | staffC@gmail.com | 5555556666 | Office Staff | 35000.00 | 2 | City2 | 456 , City2 |
| 2 | Courier Driver B | driverB@gmail.com | 5553344444 | Driver | 45000.00 | 2 | City2 | 456 , City2 |
| 1 | Manager A | managerA@gmail.com | 5551112222 | Manager | 60000.00 | 2 | City2 | 456 , City2 |
| 5 | Manager E | managerE@gmail.com | 5559990000 | Manager | 62000.00 | 3 | City3 | 789 , City3 |
| 4 | Courier Driver D | driverD@gmail.com | 5557778888 | Driver | 47000.00 | 3 | City3 | 789 , City3 |
| 3 | Office Staff C | staffC@gmail.com | 5555556666 | Office Staff | 35000.00 | 3 | City3 | 789 , City3 |
| 2 | Courier Driver B | driverB@gmail.com | 5553344444 | Driver | 45000.00 | 3 | City3 | 789 , City3 |
| 1 | Manager A | managerA@gmail.com | 5551112222 | Manager | 60000.00 | 3 | City3 | 789 , City3 |
| 5 | Manager E | managerE@gmail.com | 5559990000 | Manager | 62000.00 | 4 | City4 | 101 , City4 |
| 4 | Courier Driver D | driverD@gmail.com | 5557778888 | Driver | 47000.00 | 4 | City4 | 101 , City4 |
| 3 | Office Staff C | staffC@gmail.com | 5555556666 | Office Staff | 35000.00 | 4 | City4 | 101 , City4 |
| 2 | Courier Driver B | driverB@gmail.com | 5553344444 | Driver | 45000.00 | 4 | City4 | 101 , City4 |
| 1 | Manager A | managerA@gmail.com | 5551112222 | Manager | 60000.00 | 4 | City4 | 101 , City4 |
| 5 | Manager E | managerE@gmail.com | 5559990000 | Manager | 62000.00 | 5 | City5 | 202 , City5 |
| 4 | Courier Driver D | driverD@gmail.com | 5557778888 | Driver | 47000.00 | 5 | City5 | 202 , City5 |
| 3 | Office Staff C | staffC@gmail.com | 5555556666 | Office Staff | 35000.00 | 5 | City5 | 202 , City5 |
| 2 | Courier Driver B | driverB@gmail.com | 5553344444 | Driver | 45000.00 | 5 | City5 | 202 , City5 |
| 1 | Manager A | managerA@gmail.com | 5551112222 | Manager | 60000.00 | 5 | City5 | 202 , City5 |

25 rows in set (0.00 sec)

38)

Select * from courier left join user as sender on courier.sendername = sender.name;

| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate | UserID | Name | Email | Password | ContactNumber | Address |
|-----------|------------|---------------|--------------|-----------------|--------|------------|----------------|--------------|--------|------|-------|----------|---------------|---------|
| 1 | John | City1 | Smith | City2 | 2.50 | In Transit | ABC123 | 2023-01-10 | NULL | NULL | NULL | NULL | NULL | NULL |
| 2 | Alice | City4 | Johnson | City3 | 1.00 | Delivered | DEF456 | 2023-01-15 | NULL | NULL | NULL | NULL | NULL | NULL |
| 3 | Charlie | City5 | Davis | City6 | 3.00 | Pending | GHI789 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
| 4 | Frank | City7 | Miller | City8 | 4.20 | In Transit | JKL012 | 2023-01-20 | NULL | NULL | NULL | NULL | NULL | NULL |

39)

Select * from courier left join user as receiver on courier.receivername = receiver.name;

| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate | UserID | Name | Email | Password | ContactNumber | Address |
|-----------|------------|---------------|--------------|-----------------|--------|------------|----------------|--------------|--------|------|-------|----------|---------------|---------|
| 1 | John | City1 | Smith | City2 | 2.50 | In Transit | ABC123 | 2023-01-10 | NULL | NULL | NULL | NULL | NULL | NULL |
| 2 | Alice | City4 | Johnson | City3 | 1.00 | Delivered | DEF456 | 2023-01-15 | NULL | NULL | NULL | NULL | NULL | NULL |
| 3 | Charlie | City5 | Davis | City6 | 3.00 | Pending | GHI789 | NULL | NULL | NULL | NULL | NULL | NULL | NULL |
| 4 | Frank | City7 | Miller | City8 | 4.20 | In Transit | JKL012 | 2023-01-20 | NULL | NULL | NULL | NULL | NULL | NULL |

42) select l.locationid, l.locationname, sum(p.amount), as totalpayments from location l left join payment p on l.locationid = p.locationid group by l.locationid;

43)

```
mysql> select * from courier inner join courier as samesender on courier.sendername =
-> samesender.sendername and courier.courierid <> samesender.courierid;
Empty set (0.00 sec)
```

44)

SELECT * from employee where role="Manager";

| EmployeeID | Name | Email | ContactNumber | Role | Salary |
|------------|-----------|--------------------|---------------|---------|----------|
| 1 | Manager A | managerA@gmail.com | 5551112222 | Manager | 60000.00 |
| 5 | Manager E | managerE@gmail.com | 5559990000 | Manager | 62000.00 |

45)

mysql> select * from payment inner join courier on payment.courierid = courier.courierid inner join courier as samelocation on courier.senderaddress = samelocation.senderaddress and courier.courierid <> samelocation.courierid;

```
mysql> select * from payment inner join courier on payment.courierid = cour
ier.courierid inner join courier as samelocation on courier.senderaddress =
samelocation.senderaddress and courier.courierid <> samelocation.courierid
;
Empty set (0.00 sec)
```

46)

SELECT CourierID,TrackingNumber,SenderName,SenderAddress,ReceiverName,ReceiverAddress,

Weight,Status,DeliveryDate FROM Courier WHERE SenderAddress IN (SELECT SenderAddress FROM Courier GROUP BY SenderAddress HAVING COUNT(*) > 1);

```
mysql> SELECT CourierID,TrackingNumber,SenderName,SenderAddress,ReceiverName,ReceiverAddress,
    -> Weight,Status,DeliveryDate FROM Courier WHERE SenderAddress IN (SELECT SenderAddress FROM Courier GROUP BY SenderAddress HAVING COUNT(*) > 1);
Empty set (0.00 sec)
```

49)

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

| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
|-----------|------------|---------------|--------------|-----------------|--------|------------|----------------|--------------|
| 3 | Charlie | City5 | Davis | City6 | 3.00 | Pending | GHI789 | NULL |
| 4 | Frank | City7 | Miller | City8 | 4.20 | In Transit | JKL012 | 2023-01-20 |

50)

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

| name |
|-----------|
| Manager A |
| Manager E |

51)

select sum(cost) from courierservices where cost < (select max(cost) from

-> courierservices);

| |
|-----------|
| sum(cost) |
| 105.96 |

52)

mysql> select * from courier where status in ('In Transit','Delivered');

| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
|-----------|------------|---------------|--------------|-----------------|--------|------------|----------------|--------------|
| 1 | John | City1 | Smith | City2 | 2.50 | In Transit | ABC123 | 2023-01-10 |
| 2 | Alice | City4 | Johnson | City3 | 1.80 | Delivered | DEF456 | 2023-01-15 |
| 4 | Frank | City7 | Miller | City8 | 4.20 | In Transit | JKL012 | 2023-01-20 |

53)

select l.locationid, l.locationname, l.address, max(p.amount) as maxamount

-> from location l join payment p on l.locationid = p.locationid

-> group by l.locationid having max(p.amount) is not null;

| locationid | locationname | address | maxamount |
|------------|--------------|-------------|-----------|
| 1 | City1 | 123 , City1 | 29.99 |
| 2 | City2 | 456 , City2 | 15.99 |
| 3 | City3 | 789 , City3 | 25.00 |
| 4 | City4 | 101 , City4 | 20.50 |
| 5 | City5 | 202 , City5 | 12.75 |

54)

```
mysql> select * from courier where weight > (select max(weight) from courier where
-> sendername = 'Frank');
Empty set (0.00 sec)
```