

MySQL 8.0 Command Line Client

```
mysql> /*ASSIGNMENT-4*/
mysql> /*TASK1-DATABASE DESIGN:
   */ • Define the Database Schema*/
mysql> CREATE DATABASE if not exists couriermanagementsystem ;
Query OK, 1 row affected, 1 warning (0.00 sec)

mysql> use couriermanagementsystem;
Database changed
mysql> /* Create SQL tables for entities such as User, Courier, Employee,
   */ Location,Payment
   */ • Define relationships between these tables (one-to-many, many-to-many, etc.)*/
mysql> /*User*/
mysql> -- User Table
mysql> CREATE TABLE User (
    ->     UserID INT PRIMARY KEY,
    ->     Name VARCHAR(255),
    ->     Email VARCHAR(255) UNIQUE KEY,
    ->     Password VARCHAR(255),
    ->     ContactNumber VARCHAR(20),
    ->     Address TEXT
    -> );
Query OK, 0 rows affected (0.20 sec)
```

```
mysql>
mysql> desc user;
```

Field	Type	Null	Key	Default	Extra
UserID	int	NO	PRI	NULL	
Name	varchar(255)	YES		NULL	
Email	varchar(255)	YES	UNI	NULL	
Password	varchar(255)	YES		NULL	
ContactNumber	varchar(20)	YES		NULL	
Address	text	YES		NULL	

```
6 rows in set (0.04 sec)
```

```
mysql> /*COURIER*/
```

```
mysql> CREATE TABLE Courier (
    ->     CourierID INT PRIMARY KEY,
    ->     SenderName VARCHAR(255),
    ->     SenderAddress TEXT,
    ->     ReceiverName VARCHAR(255),
    ->     ReceiverAddress TEXT,
```

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```
MySQL 8.0 Command Line Client
-->     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 (0.05 sec)

mysql> desc courier;
+-----+-----+-----+-----+-----+-----+
| Field      | Type       | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CourierID  | int        | NO   | PRI  | NULL    |       |
| SenderName | varchar(255) | YES  |       | NULL    |       |
| SenderAddress | text      | YES  |       | NULL    |       |
| ReceiverName | varchar(255) | YES  |       | NULL    |       |
| ReceiverAddress | text      | YES  |       | NULL    |       |
| Weight      | decimal(5,2) | YES  |       | NULL    |       |
| Status       | varchar(50)  | YES  |       | NULL    |       |
| TrackingNumber | varchar(20) | YES  | UNI  | NULL    |       |
| DeliveryDate | date       | YES  |       | NULL    |       |
+-----+-----+-----+-----+-----+-----+
9 rows in set (0.01 sec)

mysql> /*CourierServices*/
mysql> CREATE TABLE CourierServices (
-->     ServiceID INT PRIMARY KEY,
-->     ServiceName VARCHAR(100),
-->     Cost DECIMAL(8, 2)
--> );
Query OK, 0 rows affected (0.03 sec)

mysql> desc customerservices;
ERROR 1146 (42S02): Table 'couriermanagementsystem.customerservices' doesn't exist
mysql> desc courierservices;
+-----+-----+-----+-----+-----+
| Field      | Type       | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+
| ServiceID  | int        | NO   | PRI  | NULL    |       |
| ServiceName | varchar(100) | YES  |       | NULL    |       |
| Cost        | decimal(8,2) | YES  |       | NULL    |       |
+-----+-----+-----+-----+-----+
```

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MySQL 8.0 Command Line Client

```
mysql> /*Employee*/
mysql> CREATE TABLE Employee (
    ->     EmployeeID 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 (0.04 sec)
```

```
mysql> desc employee;
```

Field	Type	Null	Key	Default	Extra
EmployeeID	int	NO	PRI	NULL	
Name	varchar(255)	YES		NULL	
Email	varchar(255)	YES	UNI	NULL	
ContactNumber	varchar(20)	YES		NULL	
Role	varchar(50)	YES		NULL	
Salary	decimal(10,2)	YES		NULL	

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

```
mysql> /*LOCATION*/
```

```
mysql> CREATE TABLE Location (
    ->     LocationID INT PRIMARY KEY,
    ->     LocationName VARCHAR(100),
    ->     Address TEXT
    -> );
Query OK, 0 rows affected (0.03 sec)
```

```
mysql> desc location;
```

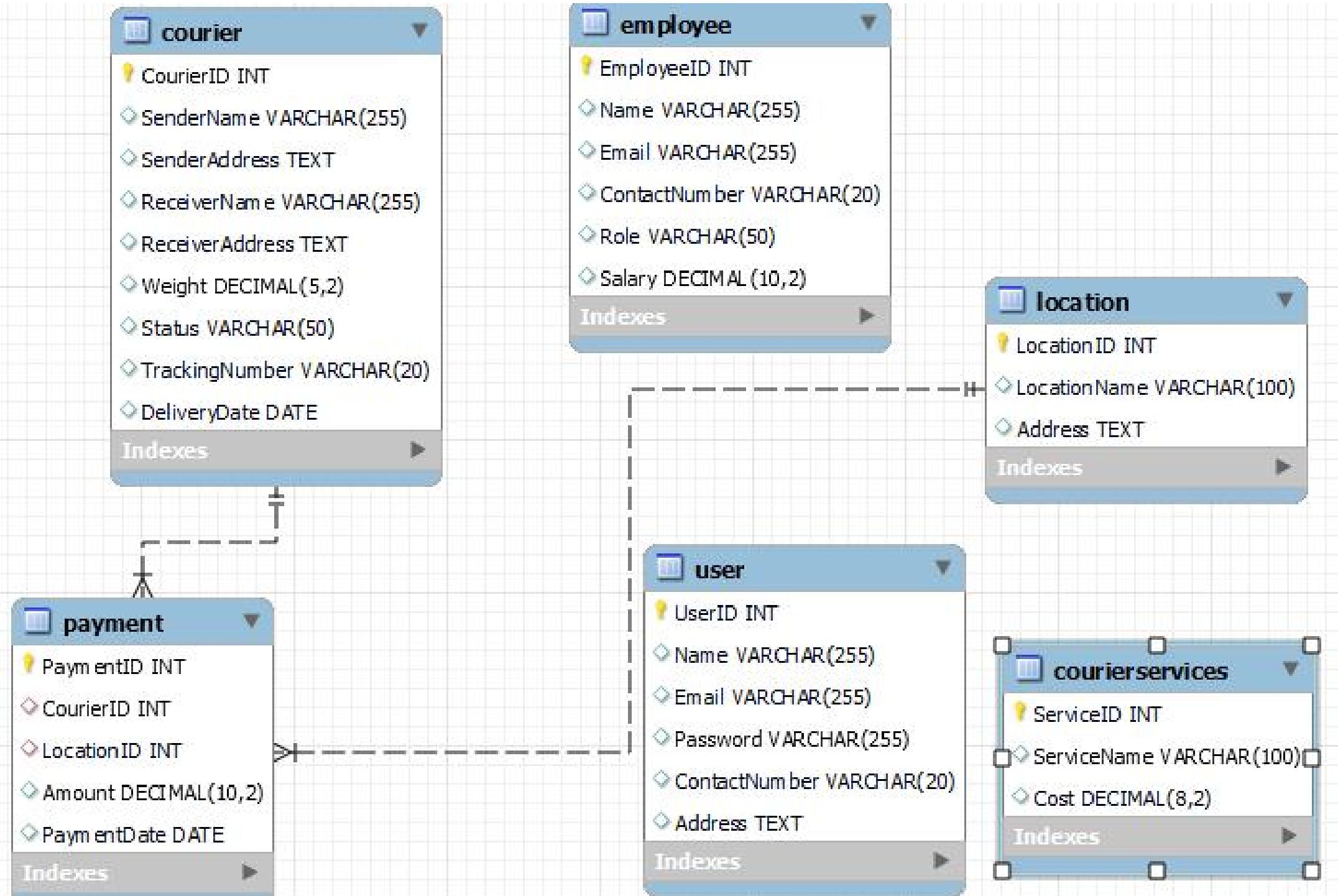
Field	Type	Null	Key	Default	Extra
LocationID	int	NO	PRI	NULL	
LocationName	varchar(100)	YES		NULL	
Address	text	YES		NULL	

```
3 rows in set (0.00 sec)
```

```
mysql>
```

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MySQL 8.0 Command Line Client

```
mysql> /*Payment*/
mysql> 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 (0.04 sec)
```

```
mysql> desc payment;
```

Field	Type	Null	Key	Default	Extra
PaymentID	int	NO	PRI	NULL	
CourierID	int	YES	MUL	NULL	
LocationID	int	YES	MUL	NULL	
Amount	decimal(10,2)	YES		NULL	
PaymentDate	date	YES		NULL	

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

```
mysql> /*• Populate Sample Data • Insert sample data into the tables to simulate real-world scenarios. */
```

```
mysql> INSERT INTO User (UserID, Name, Email, Password, ContactNumber, Address)
    -> VALUES
    ->     (1, 'Amit Sharma', 'amit.sharma@example.com', 'password123', '9876543210', '123 Main Street, Bangalore'),
    ->     (2, 'Priya Verma', 'priya.verma@example.com', 'pass456', '8765432109', '456 Park Avenue, Mumbai'),
    ->     (3, 'Raj Kumar', 'raj.kumar@example.com', 'securepass', '7654321098', '789 Street, Delhi'),
    ->     (4, 'Sneha Singh', 'sneha.singh@example.com', 'pass789', '6543210987', '567 Avenue Road, Kolkata'),
    ->     (5, 'Neha Patel', 'neha.patel@example.com', 'secure123', '5432109876', '890 Street, Chennai'),
    ->     (6, 'Kunal Khanna', 'kunal.khanna@example.com', 'pass987', '4321098765', '678 Main Road, Hyderabad'),
    ->     (7, 'Suman Gupta', 'suman.gupta@example.com', 'passwordXYZ', '3210987654', '901 Lane, Pune'),
    ->     (8, 'Rahul Singh', 'rahul.singh@example.com', 'pass456', '2109876543', '234 Hill Street, Jaipur'),
    ->     (9, 'Anjali Verma', 'anjali.verma@example.com', 'secret321', '1098765432', '567 Garden Avenue, Lucknow'),
    ->     (10, 'Vikas Kumar', 'vikas.kumar@example.com', 'pass123', '9876543210', '789 Skyline Road, Ahmedabad');
```

```
Query OK, 10 rows affected (0.03 sec)
```

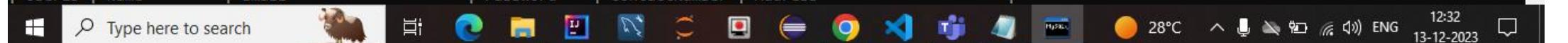
```
Records: 10  Duplicates: 0  Warnings: 0
```

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```
mysql> select * from user;
```

UserID	Name	Email	Password	ContactNumber	Address
1	Amit Sharma	amit.sharma@example.com	password123	9876543210	123 Main Street, Bangalore



```

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+-----+-----+-----+-----+-----+-----+-----+
| 3 | Raj Kumar | raj.kumar@example.com | securepass | 7654321098 | 789 Street, Delhi
| 4 | Sneha Singh | sneha.singh@example.com | pass789 | 6543210987 | 567 Avenue Road, Kolkata
| 5 | Neha Patel | neha.patel@example.com | secure123 | 5432109876 | 890 Street, Chennai
| 6 | Kunal Khanna | kunal.khanna@example.com | pass987 | 4321098765 | 678 Main Road, Hyderabad
| 7 | Suman Gupta | suman.gupta@example.com | passwordXYZ | 3210987654 | 901 Lane, Pune
| 8 | Rahul Singh | rahul.singh@example.com | pass456 | 2109876543 | 234 Hill Street, Jaipur
| 9 | Anjali Verma | anjali.verma@example.com | secret321 | 1098765432 | 567 Garden Avenue, Lucknow
| 10 | Vikas Kumar | vikas.kumar@example.com | pass123 | 9876543210 | 789 Skyline Road, Ahmedabad
+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> /*Courier*/
mysql> INSERT INTO Courier (CourierID, SenderName, SenderAddress, ReceiverName, ReceiverAddress, Weight, Status, TrackingNumber, DeliveryDate)
-> VALUES
->     (101, 'Amit Patel', 'Sender Address 11', 'Riya Gupta', 'Receiver Address 11', 2.3, 'In Transit', 'TN111111', '2023-05-01'),
->     (102, 'Neha Singhania', 'Sender Address 12', 'Raj Verma', 'Receiver Address 12', 1.5, 'Delivered', 'TN222222', '2023-05-03'),
->     (103, 'Vikas Kapoor', 'Sender Address 13', 'Pooja Sharma', 'Receiver Address 13', 3.0, 'Pending', 'TN333333', NULL),
->     (104, 'Anita Reddy', 'Sender Address 14', 'Suresh Khanna', 'Receiver Address 14', 2.2, 'Delivered', 'TN444444', '2023-05-06'),
->     (105, 'Rahul Kumar', 'Sender Address 15', 'Priya Mehta', 'Receiver Address 15', 1.8, 'Pending', 'TN555555', NULL),
->     (106, 'Sanya Kapoor', 'Sender Address 16', 'Alok Sharma', 'Receiver Address 16', 3.5, 'In Transit', 'TN666666', '2023-05-09'),
->     (107, 'Raj Reddy', 'Sender Address 17', 'Neha Kapoor', 'Receiver Address 17', 1.0, 'Delivered', 'TN777777', '2023-05-11'),
->     (108, 'Pooja Khanna', 'Sender Address 18', 'Vikas Mehta', 'Receiver Address 18', 2.5, 'Pending', 'TN888888', NULL),
->     (109, 'Suresh Verma', 'Sender Address 19', 'Amita Singh', 'Receiver Address 19', 3.8, 'In Transit', 'TN999999', '2023-05-14'),
->     (110, 'Priya Sharma', 'Sender Address 20', 'Rahul Kapoor', 'Receiver Address 20', 1.2, 'Delivered', 'TN101010', '2023-05-16');
Query OK, 10 rows affected (0.03 sec)
Records: 10  Duplicates: 0  Warnings: 0

mysql>
mysql>
mysql> desc courier;
+-----+-----+-----+-----+-----+-----+
| Field      | Type       | Null | Key | Default | Extra |
+-----+-----+-----+-----+-----+-----+
| CourierID  | int        | NO   | PRI  | NULL    |       |
| SenderName | varchar(255)| YES  |       | NULL    |       |
| SenderAddress | text      | YES  |       | NULL    |       |
| ReceiverName | varchar(255)| YES  |       | NULL    |       |
| ReceiverAddress | text      | YES  |       | NULL    |       |
| Weight     | decimal(5,2) | YES  |       | NULL    |       |
| Status     | varchar(50)  | YES  |       | NULL    |       |
| TrackingNumber | varchar(20) | YES  | UNI  | NULL    |       |
| DeliveryDate | date      | YES  |       | NULL    |       |
+-----+-----+-----+-----+-----+-----+
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```

MySQL 8.0 Command Line Client

```
mysql> /*CourierServices*/
mysql> INSERT INTO CourierServices (ServiceID, ServiceName, Cost)
-> VALUES
->     (201, 'Express', 150.00),
->     (202, 'Standard', 100.00),
->     (203, 'Premium', 200.00),
->     (204, 'Economy', 80.00),
->     (205, 'Swift', 120.00),
->     (206, 'QuickShip', 180.00),
->     (207, 'SpeedyParcel', 90.00),
->     (208, 'RapidDelivery', 160.00),
->     (209, 'InstantDispatch', 140.00),
->     (210, 'SwiftCargo', 110.00);
Query OK, 10 rows affected (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

```
mysql> desc courierservices;
```

Field	Type	Null	Key	Default	Extra
ServiceID	int	NO	PRI	NULL	
ServiceName	varchar(100)	YES		NULL	
Cost	decimal(8,2)	YES		NULL	

```
3 rows in set (0.00 sec)
```

```
mysql> INSERT INTO Employee (EmployeeID, Name, Email, ContactNumber, Role, Salary)
-> VALUES
->     (301, 'Amit Kumar', 'amit.kumar@example.com', '9876543210', 'Manager', 60000.00),
->     (302, 'Priya Singh', 'priya.singh@example.com', '8765432109', 'Delivery Person', 30000.00),
->     (303, 'Rahul Sharma', 'rahul.sharma@example.com', '7654321098', 'Manager', 55000.00),
->     (304, 'Sanya Gupta', 'sanya.gupta@example.com', '6543210987', 'Delivery Person', 28000.00),
->     (305, 'Neha Singh', 'neha.singh@example.com', '5432109876', 'Manager', 60000.00),
->     (306, 'Vikas Sharma', 'vikas.sharma@example.com', '4321098765', 'Delivery Person', 32000.00),
->     (307, 'Pooja Verma', 'pooja.verma@example.com', '3210987654', 'Manager', 58000.00),
->     (308, 'Suresh Kumar', 'suresh.kumar@example.com', '2109876543', 'Delivery Person', 31000.00),
->     (309, 'Anita Verma', 'anita.verma@example.com', '1098765432', 'Manager', 60000.00),
->     (310, 'Alok Khanna', 'alok.khanna@example.com', '9876543210', 'Delivery Person', 33000.00);
Query OK, 10 rows affected (0.01 sec)
Records: 10  Duplicates: 0  Warnings: 0
```

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```
mysql> -
```



MySQL 8.0 Command Line Client

```
mysql> /*Location*/
mysql> INSERT INTO Location (LocationID, LocationName, Address)
-> VALUES
->     (401, 'Branch Mumbai', 'Mumbai, Maharashtra, India'),
->     (402, 'Branch Delhi', 'Delhi, India'),
->     (403, 'Branch Bangalore', 'Bangalore, Karnataka, India'),
->     (404, 'Branch Chennai', 'Chennai, Tamil Nadu, India'),
->     (405, 'Branch Kolkata', 'Kolkata, West Bengal, India'),
->     (406, 'Branch Hyderabad', 'Hyderabad, Telangana, India'),
->     (407, 'Branch Pune', 'Pune, Maharashtra, India'),
->     (408, 'Branch Jaipur', 'Jaipur, Rajasthan, India'),
->     (409, 'Branch Lucknow', 'Lucknow, Uttar Pradesh, India'),
->     (410, 'Branch Ahmedabad', 'Ahmedabad, Gujarat, India');
```

Query OK, 10 rows affected (0.01 sec)

Records: 10 Duplicates: 0 Warnings: 0

```
mysql> select* from location;
```

LocationID	LocationName	Address
401	Branch Mumbai	Mumbai, Maharashtra, India
402	Branch Delhi	Delhi, India
403	Branch Bangalore	Bangalore, Karnataka, India
404	Branch Chennai	Chennai, Tamil Nadu, India
405	Branch Kolkata	Kolkata, West Bengal, India
406	Branch Hyderabad	Hyderabad, Telangana, India
407	Branch Pune	Pune, Maharashtra, India
408	Branch Jaipur	Jaipur, Rajasthan, India
409	Branch Lucknow	Lucknow, Uttar Pradesh, India
410	Branch Ahmedabad	Ahmedabad, Gujarat, India

10 rows in set (0.00 sec)

```
mysql> /*Payment*/
```

```
mysql> INSERT INTO Payment (PaymentID, CourierID, LocationID, Amount, PaymentDate)
-> VALUES
->     (501, 101, 401, 120.00, '2023-04-11'),
->     (502, 102, 402, 90.00, '2023-04-13'),
->     (503, 103, 403, 110.00, '2023-05-05'),
->     (504, 104, 404, 95.00, '2023-05-08'),
->     (505, 105, 403, 120.00, '2023-05-10'),
->     (506, 106, 404, 85.00, '2023-05-12'),
->     (507, 107, 403, 130.00, '2023-05-15');
```

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MySQL 8.0 Command Line Client

```
mysql> INSERT INTO Payment (PaymentID, CourierID, LocationID, Amount, PaymentDate)
-> VALUES
->     (501, 101, 401, 120.00, '2023-04-11'),
->     (502, 102, 402, 90.00, '2023-04-13'),
->     (503, 103, 403, 110.00, '2023-05-05'),
->     (504, 104, 404, 95.00, '2023-05-08'),
->     (505, 105, 403, 120.00, '2023-05-10'),
->     (506, 106, 404, 85.00, '2023-05-12'),
->     (507, 107, 403, 130.00, '2023-05-15'),
->     (508, 108, 404, 75.00, '2023-05-18'),
->     (509, 109, 403, 140.00, '2023-05-20'),
->     (510, 110, 404, 100.00, '2023-05-22');
```

Query OK, 10 rows affected (0.01 sec)

Records: 10 Duplicates: 0 Warnings: 0

```
mysql> select * from payment;
```

PaymentID	CourierID	LocationID	Amount	PaymentDate
501	101	401	120.00	2023-04-11
502	102	402	90.00	2023-04-13
503	103	403	110.00	2023-05-05
504	104	404	95.00	2023-05-08
505	105	403	120.00	2023-05-10
506	106	404	85.00	2023-05-12
507	107	403	130.00	2023-05-15
508	108	404	75.00	2023-05-18
509	109	403	140.00	2023-05-20
510	110	404	100.00	2023-05-22

10 rows in set (0.00 sec)

```
mysql> select * from employee;
```

EmployeeID	Name	Email	ContactNumber	Role	Salary
301	Amit Kumar	amit.kumar@example.com	9876543210	Manager	60000.00
302	Priya Singh	priya.singh@example.com	8765432109	Delivery Person	30000.00
303	Rahul Sharma	rahul.sharma@example.com	7654321098	Manager	55000.00
304	Sanya Gupta	sanya.gupta@example.com	6543210987	Delivery Person	28000.00
305	Neha Singh	neha.singh@example.com	5432109876	Manager	60000.00
306	Vikas Sharma	vikas.sharma@example.com	4321098765	Delivery Person	32000.00
307	Pooja Verma	pooja.verma@example.com	3210987654	Manager	58000.00
308	Suresh Kumar	suresh.kumar@example.com	2109876543	Delivery Person	31000.00

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MySQL 8.0 Command Line Client

```
mysql>
mysql> /*TASK2:SELECT,WHERE*/
mysql> /*1.LIST ALL CUSTOMERS*/
mysql> SELECT * FROM user;
```

User ID	Name	Email	Password	Contact Number	Address
1	Amit Sharma	amit.sharma@example.com	password123	9876543210	123 Main Street, Bangalore
2	Priya Verma	priya.verma@example.com	pass456	8765432109	456 Park Avenue, Mumbai
3	Raj Kumar	raj.kumar@example.com	securepass	7654321098	789 Street, Delhi
4	Sneha Singh	sneha.singh@example.com	pass789	6543210987	567 Avenue Road, Kolkata
5	Neha Patel	neha.patel@example.com	secure123	5432109876	890 Street, Chennai
6	Kunal Khanna	kunal.khanna@example.com	pass987	4321098765	678 Main Road, Hyderabad
7	Suman Gupta	suman.gupta@example.com	passwordXYZ	3210987654	901 Lane, Pune
8	Rahul Singh	rahul.singh@example.com	pass456	2109876543	234 Hill Street, Jaipur
9	Anjali Verma	anjali.verma@example.com	secret321	1098765432	567 Garden Avenue, Lucknow
10	Vikas Kumar	vikas.kumar@example.com	pass123	9876543210	789 Skyline Road, Ahmedabad

10 rows in set (0.00 sec)

```
mysql> /*2.2. List all orders for a specific customer:*/
mysql> SELECT
```

```
  -> *
  -> FROM
  -> Courier
  -> WHERE
  -> SenderName = 'Pooja Khanna' OR ReceiverName = 'Pooja Khanna';
```

Courier ID	Sender Name	Sender Address	Receiver Name	Receiver Address	Weight	Status	Tracking Number	Delivery Date
108	Pooja Khanna	Sender Address 18	Vikas Mehta	Receiver Address 18	2.50	Pending	TN888888	NULL

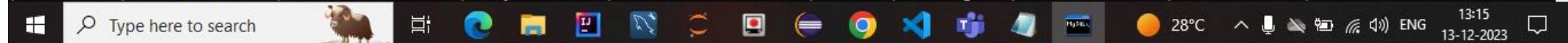
1 row in set (0.00 sec)

```
mysql> /*3.List all couriers:*/
mysql> SELECT * from courier;
```

Courier ID	Sender Name	Sender Address	Receiver Name	Receiver Address	Weight	Status	Tracking Number	Delivery Date
101	Amit Patel	Sender Address 11	Riya Gupta	Receiver Address 11	2.30	In Transit	TN111111	2023-05-01
102	Neha Singhania	Sender Address 12	Raj Verma	Receiver Address 12	1.50	Delivered	TN222222	2023-05-03
103	Vikas Kapoor	Sender Address 13	Pooja Sharma	Receiver Address 13	3.00	Pending	TN333333	NULL Go to Settings to activate Windows.
104	Anita Reddy	Sender Address 14	Suresh Khanna	Receiver Address 14	2.20	Delivered	TN444444	2023-05-06
105	Rahul Kumar	Sender Address 15	Priya Mehta	Receiver Address 15	1.80	Pending	TN555555	NULL

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10 rows in set (0.00 sec)

mysql> /*4. List all packages for a specific order: */
mysql> SELECT * FROM courier where courierid=101;
+-----+-----+-----+-----+-----+-----+-----+-----+
| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Amit Patel | Sender Address 11 | Riya Gupta | Receiver Address 11 | 2.30 | In Transit | TN111111 | 2023-05-01 |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> /*5. List all deliveries for a specific courier:*/
mysql> SELECT * FROM COURIER where TrackingNumber='TN888888';
ERROR 1054 (42S22): Unknown column 'TN888888' in 'where clause'
mysql> SELECT * FROM COURIER where TrackingNumber='TN888888';
+-----+-----+-----+-----+-----+-----+-----+-----+
| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 108 | Pooja Khanna | Sender Address 18 | Vikas Mehta | Receiver Address 18 | 2.50 | Pending | TN888888 | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.04 sec)

mysql> /*6. List all undelivered packages:*/
mysql> SELECT
    ->     CourierID,
    ->     SenderName,
    ->     SenderAddress,
    ->     ReceiverName,
    ->     ReceiverAddress,
    ->     Weight,
    ->     Status,
    ->     TrackingNumber,
    ->     DeliveryDate
    -> FROM
    ->     Courier
    -> WHERE
    ->     Status <> 'Delivered';
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Amit Patel | Sender Address 11 | Riya Gupta | Receiver Address 11 | 2.30 | In Transit | TN111111 | 2023-05-01 |
| 103 | Vikas Kapoor | Sender Address 13 | Pooja Sharma | Receiver Address 13 | 3.00 | Pending | TN333333 | NULL |
| 105 | Rahul Kumar | Sender Address 15 | Priya Mehta | Receiver Address 15 | 1.80 | Pending | TN555555 | NULL |
| 106 | Sanya Kapoor | Sender Address 16 | Alok Sharma | Receiver Address 16 | 3.50 | In Transit | TN666666 | 2023-05-09 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
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```

MySQL 8.0 Command Line Client

mysql> /*7. List all packages that are scheduled for delivery today: */

mysql> SELECT

```
-> *
-> FROM
-> Courier
-> WHERE
```

```
-> DATE(DeliveryDate) = CURDATE();
```

Empty set (0.01 sec)

mysql> /*8. List all packages with a specific status: */

mysql> SELECT

```
-> *
-> FROM
-> Courier
-> WHERE
-> Status = 'In Transit';
```

CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status	TrackingNumber	DeliveryDate
101	Amit Patel	Sender Address 11	Riya Gupta	Receiver Address 11	2.30	In Transit	TN111111	2023-05-01
106	Sanya Kapoor	Sender Address 16	Alok Sharma	Receiver Address 16	3.50	In Transit	TN666666	2023-05-09
109	Suresh Verma	Sender Address 19	Amita Singh	Receiver Address 19	3.80	In Transit	TN999999	2023-05-14

3 rows in set (0.00 sec)

mysql> /*9. Calculate the total number of packages for each courier. */

mysql> SELECT

```
-> CourierID,
-> COUNT(*) AS TotalPackages
-> FROM
-> Courier
-> GROUP BY
-> CourierID;
```

CourierID	TotalPackages
101	1
102	1
103	1
104	1
105	1
106	1
107	1
108	1

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MySQL 8.0 Command Line Client

```
10 rows in set (0.01 sec)

mysql> /*10. Find the average delivery time for each courier */
mysql> SELECT
    ->     CourierID,
    ->     AVG(DATEDIFF(NOW(), DeliveryDate)) AS AverageDeliveryTime
    -> FROM
    ->     Courier
    -> GROUP BY
    ->     CourierID;
```

CourierID	AverageDeliveryTime
101	226.0000
102	224.0000
103	NULL
104	221.0000
105	NULL
106	218.0000
107	216.0000
108	NULL
109	213.0000
110	211.0000

```
10 rows in set (0.00 sec)
```

```
mysql> /*11. List all packages with a specific weight range:*/
mysql> SELECT
```

```
    -> *
    -> FROM
    ->     Courier
    -> WHERE
    ->     Weight BETWEEN 10 AND 20;
```

```
Empty set (0.01 sec)
```

```
mysql> /*12. Retrieve employees whose names contain 'John' */
mysql> SELECT
```

```
    -> * FROM Employee
    -> WHERE
    ->     Name LIKE '%John%';
```

```
Empty set (0.01 sec)
```

```
mysql>
```

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```
MySQL 8.0 Command Line Client
->     Name LIKE '%John%';
Empty set (0.01 sec)

mysql> /*13. Retrieve all courier records with payments greater than $50*/
mysql> SELECT
->     C.* , p.PaymentID, p.Amount, p.PaymentDate
->     FROM
->         Courier c
->     JOIN
->         Payment p ON c.CourierID = p.CourierID
->     WHERE
->         p.Amount > 50;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate | PaymentID | Amount | PaymentDate |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Amit Patel | Sender Address 11 | Riya Gupta | Receiver Address 11 | 2.30 | In Transit | TN111111 | 2023-05-01 | 501 | 120.00 | 2023-04-11 |
| 102 | Neha Singhania | Sender Address 12 | Raj Verma | Receiver Address 12 | 1.50 | Delivered | TN222222 | 2023-05-03 | 502 | 90.00 | 2023-04-13 |
| 103 | Vikas Kapoor | Sender Address 13 | Pooja Sharma | Receiver Address 13 | 3.00 | Pending | TN333333 | NULL | 503 | 110.00 | 2023-05-05 |
| 104 | Anita Reddy | Sender Address 14 | Suresh Khanna | Receiver Address 14 | 2.20 | Delivered | TN444444 | 2023-05-06 | 504 | 95.00 | 2023-05-08 |
| 105 | Rahul Kumar | Sender Address 15 | Priya Mehta | Receiver Address 15 | 1.80 | Pending | TN555555 | NULL | 505 | 120.00 | 2023-05-10 |
| 106 | Sanya Kapoor | Sender Address 16 | Alok Sharma | Receiver Address 16 | 3.50 | In Transit | TN666666 | 2023-05-09 | 506 | 85.00 | 2023-05-12 |
| 107 | Raj Reddy | Sender Address 17 | Neha Kapoor | Receiver Address 17 | 1.00 | Delivered | TN777777 | 2023-05-11 | 507 | 130.00 | 2023-05-15 |
| 108 | Pooja Khanna | Sender Address 18 | Vikas Mehta | Receiver Address 18 | 2.50 | Pending | TN888888 | NULL | 508 | 75.00 | 2023-05-18 |
| 109 | Suresh Verma | Sender Address 19 | Amita Singh | Receiver Address 19 | 3.80 | In Transit | TN999999 | 2023-05-14 | 509 | 140.00 | 2023-05-20 |
| 110 | Priya Sharma | Sender Address 20 | Rahul Kapoor | Receiver Address 20 | 1.20 | Delivered | TN101010 | 2023-05-16 | 510 | 100.00 | 2023-05-22 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.02 sec)
```

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MySQL 8.0 Command Line Client

```
mysql> /*15. Calculate the total revenue generated by each location*/
```

```
mysql> 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;
```

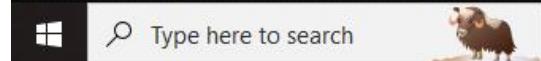
LocationID	LocationName	TotalRevenue
401	Branch Mumbai	120.00
402	Branch Delhi	90.00
403	Branch Bangalore	500.00
404	Branch Chennai	355.00
405	Branch Kolkata	NULL
406	Branch Hyderabad	NULL
407	Branch Pune	NULL
408	Branch Jaipur	NULL
409	Branch Lucknow	NULL
410	Branch Ahmedabad	NULL

```
10 rows in set (0.00 sec)
```

```
mysql> /*16. Find the total number of couriers delivered to each location*/
```

```
mysql> SELECT
    ->     l.LocationID,
    ->     l.LocationName,
    ->     COUNT(DISTINCT p.CourierID) AS TotalCouriersDelivered
-> FROM
->     Location l
-> LEFT JOIN
->     Payment p ON l.LocationID = p.LocationID
-> LEFT JOIN
->     Courier c ON p.CourierID = c.CourierID
-> WHERE
->     c.Status = 'Delivered' -- Consider only delivered couriers
-> GROUP BY
->     l.LocationID, l.LocationName;
```

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```
MySQL 8.0 Command Line Client
->     l.LocationID, l.LocationName;
+-----+-----+
| LocationID | LocationName      | TotalCouriersDelivered |
+-----+-----+
| 402 | Branch Delhi          | 1 |
| 403 | Branch Bangalore       | 1 |
| 404 | Branch Chennai          | 2 |
+-----+-----+
3 rows in set (0.01 sec)

mysql> /*17. Find the courier with the highest average delivery time*/
mysql> SELECT
->     c.CourierID,
->     c.SenderName,
->     c.ReceiverName,
->     AVG(DATEDIFF(c.DeliveryDate, c.DeliveryDate)) AS AverageDeliveryTime
-> FROM
->     Courier c
-> WHERE
->     c.Status = 'Delivered'
-> GROUP BY
->     c.CourierID, c.SenderName, c.ReceiverName
-> ORDER BY
->     AverageDeliveryTime DESC
-> LIMIT 1;
+-----+-----+
| CourierID | SenderName      | ReceiverName | AverageDeliveryTime |
+-----+-----+
| 102 | Neha Singhania | Raj Verma    | 0.0000        |
+-----+-----+
1 row in set (0.00 sec)

mysql> /*18. Find Locations with Total Payments Less Than a Certain Amount*/
mysql> 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, l.LocationName
-> HAVING
```

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MySQL 8.0 Command Line Client

```
-> LEFT JOIN
->     Payment p ON l.LocationID = p.LocationID
-> GROUP BY
->     l.LocationID, l.LocationName
-> HAVING
->     TotalPayments < 1000;
```

LocationID	LocationName	TotalPayments
401	Branch Mumbai	120.00
402	Branch Delhi	90.00
403	Branch Bangalore	500.00
404	Branch Chennai	355.00

4 rows in set (0.00 sec)

mysql> /*19. Calculate Total Payments per Location */

mysql> 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, l.LocationName;
```

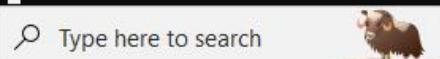
LocationID	LocationName	TotalPayments
401	Branch Mumbai	120.00
402	Branch Delhi	90.00
403	Branch Bangalore	500.00
404	Branch Chennai	355.00
405	Branch Kolkata	NULL
406	Branch Hyderabad	NULL
407	Branch Pune	NULL
408	Branch Jaipur	NULL
409	Branch Lucknow	NULL
410	Branch Ahmedabad	NULL

10 rows in set (0.00 sec)

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mysql>



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```
MySQL 8.0 Command Line Client
|      410 | Branch Ahmedabad |          NULL |
+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> /*20. Retrieve couriers who have received payments totaling more than $1000 in a specific location
/*> (LocationID = X): */
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 = 403
-> GROUP BY
->     c.CourierID, c.SenderName, c.ReceiverName
-> HAVING
->     TotalPayments > 1000;
Empty set (0.01 sec)

mysql> /*21. Retrieve couriers who have received payments totaling more than $1000 after a certain date
/*> (PaymentDate > 'YYYY-MM-DD'):*/
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.PaymentDate > 2023-05-08
-> GROUP BY
->     c.CourierID, c.SenderName, c.ReceiverName
-> HAVING
->     TotalPayments > 1000;
Empty set, 1 warning (0.01 sec)

mysql>
```

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MySQL 8.0 Command Line Client

```
mysql> /*22. Retrieve locations where the total amount received is more than $5000 before a certain date
   */ (PaymentDate > 'YYYY-MM-DD') */
mysql> SELECT
->     l.LocationID,
->     l.LocationName,
->     SUM(p.Amount) AS TotalAmountReceived
-> FROM
->     Location l
-> JOIN
->     Payment p ON l.LocationID = p.LocationID
-> WHERE
->     p.PaymentDate > 2023-05-08
-> GROUP BY
->     l.LocationID, l.LocationName
-> HAVING
->     TotalAmountReceived > 5000;
Empty set, 1 warning (0.00 sec)
```

```
mysql> /*Task 4: Inner Join,Full Outer Join, Cross Join, Left Outer Join,Right Outer Join*/
```

```
mysql> /*23. Retrieve Payments with Courier Information */
mysql> SELECT
```

```
->     p.*,
->     c.*
-> 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										
TN111111	101	401	120.00	2023-04-11	101	Amit Patel	Sender Address 11	Riya Gupta	Receiver Address 11	2.30	In Transit
TN222222	102	402	90.00	2023-04-13	102	Neha Singhania	Sender Address 12	Raj Verma	Receiver Address 12	1.50	Delivered
TN333333	103	403	110.00	2023-05-05	103	Vikas Kapoor	Sender Address 13	Pooja Sharma	Receiver Address 13	3.00	Pending
TN444444	104	404	95.00	2023-05-08	104	Anita Reddy	Sender Address 14	Suresh Khanna	Receiver Address 14	2.20	Delivered
TN555555	105	403	120.00	2023-05-10	105	Rahul Kumar	Sender Address 15	Priya Mehta	Receiver Address 15	1.80	Pending
	NULL										

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```
MySQL 8.0 Command Line Client
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| TN999999 | 2023-05-14 |      510 |       110 |      404 | 100.00 | 2023-05-22 |      110 | Priya Sharma | Sender Address 20 | Rahul Kapoor | Receiver Address 20 |     1.20 | Delivered
| TN101010 | 2023-05-16 |           |           |           |           |           |           |           |           |           |           |           |           |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)

mysql> /*24. Retrieve Payments with Location Information*/
mysql> SELECT
    ->     C.* , p.*
    ->     FROM
    ->         Courier c
    ->     JOIN
    ->         Payment p ON c.CourierID = p.CourierID
    ->     WHERE
    ->         p.Amount > 50;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate | PaymentID | CourierID | L
ocationID | Amount | PaymentDate |           |           |           |           |           |           |           |           |           |           |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Amit Patel | Sender Address 11 | Riya Gupta | Receiver Address 11 | 2.30 | In Transit | TN111111 | 2023-05-01 | 501 | 101 | |
| 401 | 120.00 | 2023-04-11 |           |           |           |           |           |           |           |           |           |
| 102 | Neha Singhania | Sender Address 12 | Raj Verma | Receiver Address 12 | 1.50 | Delivered | TN222222 | 2023-05-03 | 502 | 102 |
| 402 | 90.00 | 2023-04-13 |           |           |           |           |           |           |           |           |
| 103 | Vikas Kapoor | Sender Address 13 | Pooja Sharma | Receiver Address 13 | 3.00 | Pending | TN333333 | NULL | 503 | 103 |
| 403 | 110.00 | 2023-05-05 |           |           |           |           |           |           |           |           |
| 104 | Anita Reddy | Sender Address 14 | Suresh Khanna | Receiver Address 14 | 2.20 | Delivered | TN444444 | 2023-05-06 | 504 | 104 |
| 404 | 95.00 | 2023-05-08 |           |           |           |           |           |           |           |           |
| 105 | Rahul Kumar | Sender Address 15 | Priya Mehta | Receiver Address 15 | 1.80 | Pending | TN555555 | NULL | 505 | 105 |
| 403 | 120.00 | 2023-05-10 |           |           |           |           |           |           |           |           |
| 106 | Sanya Kapoor | Sender Address 16 | Alok Sharma | Receiver Address 16 | 3.50 | In Transit | TN666666 | 2023-05-09 | 506 | 106 |
| 404 | 85.00 | 2023-05-12 |           |           |           |           |           |           |           |           |
| 107 | Raj Reddy | Sender Address 17 | Neha Kapoor | Receiver Address 17 | 1.00 | Delivered | TN777777 | 2023-05-11 | 507 | 107 |
| 403 | 130.00 | 2023-05-15 |           |           |           |           |           |           |           |           |
| 108 | Pooja Khanna | Sender Address 18 | Vikas Mehta | Receiver Address 18 | 2.50 | Pending | TN888888 | NULL | 508 | 108 |
| 404 | 75.00 | 2023-05-18 |           |           |           |           |           |           |           |           |
| 109 | Suresh Verma | Sender Address 19 | Amita Singh | Receiver Address 19 | 3.80 | In Transit | TN999999 | 2023-05-14 | 509 | 109 |
| 403 | 140.00 | 2023-05-20 |           |           |           |           |           |           |           |           |
| 110 | Priya Sharma | Sender Address 20 | Rahul Kapoor | Receiver Address 20 | 1.20 | Delivered | TN101010 | 2023-05-16 | 510 | 110 |
| 404 | 100.00 | 2023-05-22 |           |           |           |           |           |           |           |           |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
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```

MySQL 8.0 Command Line Client

mysql> /*25. Retrieve Payments with Courier and Location Information*/

mysql> SELECT

```
->      p.* , c.*  
->      , 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	Amount	PaymentDate	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status
TrackingNumber	DeliveryDate	LocationName	Address								
501	101	401	120.00	2023-04-11	101	Amit Patel	Sender Address 11	Riya Gupta	Receiver Address 11	2.30	In Transit
TN111111	2023-05-01	Branch Mumbai	Mumbai, Maharashtra, India		102	Neha Singhania	Sender Address 12	Raj Verma	Receiver Address 12	1.50	Delivered
502	102	402	90.00	2023-04-13	102	Neetu Singhania	Sender Address 12	Raj Verma	Receiver Address 12	1.50	Delivered
TN222222	2023-05-03	Branch Delhi	Delhi, India		103	Vikas Kapoor	Sender Address 13	Pooja Sharma	Receiver Address 13	3.00	Pending
503	103	403	110.00	2023-05-05	103	Vikas Kapoor	Sender Address 13	Pooja Sharma	Receiver Address 13	3.00	Pending
TN333333	NULL	Branch Bangalore	Bangalore, Karnataka, India		104	Anita Reddy	Sender Address 14	Suresh Khanna	Receiver Address 14	2.20	Delivered
504	104	404	95.00	2023-05-08	104	Anita Reddy	Sender Address 14	Suresh Khanna	Receiver Address 14	2.20	Delivered
TN444444	2023-05-06	Branch Chennai	Chennai, Tamil Nadu, India		105	Rahul Kumar	Sender Address 15	Priya Mehta	Receiver Address 15	1.80	Pending
505	105	403	120.00	2023-05-10	105	Rahul Kumar	Sender Address 15	Priya Mehta	Receiver Address 15	1.80	Pending
TN555555	NULL	Branch Bangalore	Bangalore, Karnataka, India		106	Sanya Kapoor	Sender Address 16	Alok Sharma	Receiver Address 16	3.50	In Transit
506	106	404	85.00	2023-05-12	106	Sanya Kapoor	Sender Address 16	Alok Sharma	Receiver Address 16	3.50	In Transit
TN666666	2023-05-09	Branch Chennai	Chennai, Tamil Nadu, India		107	Raj Reddy	Sender Address 17	Neha Kapoor	Receiver Address 17	1.00	Delivered
507	107	403	130.00	2023-05-15	107	Raj Reddy	Sender Address 17	Neha Kapoor	Receiver Address 17	1.00	Delivered
TN777777	2023-05-11	Branch Bangalore	Bangalore, Karnataka, India		108	Pooja Khanna	Sender Address 18	Vikas Mehta	Receiver Address 18	2.50	Pending
508	108	404	75.00	2023-05-18	108	Pooja Khanna	Sender Address 18	Vikas Mehta	Receiver Address 18	2.50	Pending
TN888888	NULL	Branch Chennai	Chennai, Tamil Nadu, India		109	Suresh Verma	Sender Address 19	Amita Singh	Receiver Address 19	3.80	In Transit
509	109	403	140.00	2023-05-20	109	Suresh Verma	Sender Address 19	Amita Singh	Receiver Address 19	3.80	In Transit
TN999999	2023-05-14	Branch Bangalore	Bangalore, Karnataka, India		110	Priya Sharma	Sender Address 20	Rahul Kapoor	Receiver Address 20	1.20	Delivered
510	110	404	100.00	2023-05-22	110	Priya Sharma	Sender Address 20	Rahul Kapoor	Receiver Address 20	1.20	Delivered
TN101010	2023-05-16	Branch Chennai	Chennai, Tamil Nadu, India								

10 rows in set (0.01 sec)

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mysql>

mysql>

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10 rows in set (0.01 sec)

mysql> /*26. List all payments with courier details */

mysql> SELECT

```
->     p.*,
->     c.*,
-> FROM
->     Payment p
-> JOIN
->     Courier c ON p.CourierID = c.CourierID;
```

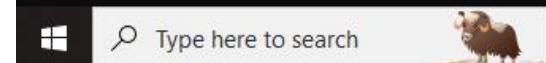
PaymentID	CourierID	LocationID	Amount	PaymentDate	CourierID	SenderName	SenderAddress	ReceiverName	ReceiverAddress	Weight	Status
TrackingNumber	DeliveryDate										
501	101	401	120.00	2023-04-11	101	Amit Patel	Sender Address 11	Riya Gupta	Receiver Address 11	2.30	In Transit
TN111111	2023-05-01				102	Neha Singhania	Sender Address 12	Raj Verma	Receiver Address 12	1.50	Delivered
502	102	402	90.00	2023-04-13	103	Vikas Kapoor	Sender Address 13	Pooja Sharma	Receiver Address 13	3.00	Pending
TN222222	2023-05-03				104	Anita Reddy	Sender Address 14	Suresh Khanna	Receiver Address 14	2.20	Delivered
503	103	403	110.00	2023-05-05	105	Rahul Kumar	Sender Address 15	Priya Mehta	Receiver Address 15	1.80	Pending
TN333333	NULL				106	Sanya Kapoor	Sender Address 16	Alok Sharma	Receiver Address 16	3.50	In Transit
504	104	404	95.00	2023-05-08	107	Raj Reddy	Sender Address 17	Neha Kapoor	Receiver Address 17	1.00	Delivered
TN444444	2023-05-06				108	Pooja Khanna	Sender Address 18	Vikas Mehta	Receiver Address 18	2.50	Pending
505	105	403	120.00	2023-05-10	109	Suresh Verma	Sender Address 19	Amita Singh	Receiver Address 19	3.80	In Transit
TN555555	NULL				110	Priya Sharma	Sender Address 20	Rahul Kapoor	Receiver Address 20	1.20	Delivered
506	106	404	85.00	2023-05-12							
TN666666	2023-05-09										
507	107	403	130.00	2023-05-15							
TN777777	2023-05-11										
508	108	404	75.00	2023-05-18							
TN888888	NULL										
509	109	403	140.00	2023-05-20							
TN999999	2023-05-14										
510	110	404	100.00	2023-05-22							
TN101010	2023-05-16										

10 rows in set (0.00 sec)

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mysql>



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```
mysql> /*27. Total payments received for each courier*/
```

```
mysql> SELECT
    ->     c.CourierID,
    ->     c.SenderName,
    ->     c.ReceiverName,
    ->     SUM(p.Amount) AS TotalPaymentsReceived
    -> FROM
    ->     Courier c
    -> JOIN
    ->     Payment p ON c.CourierID = p.CourierID
    -> GROUP BY
    ->     c.CourierID, c.SenderName, c.ReceiverName;
```

CourierID	SenderName	ReceiverName	TotalPaymentsReceived
101	Amit Patel	Riya Gupta	120.00
102	Neha Singhania	Raj Verma	90.00
103	Vikas Kapoor	Pooja Sharma	110.00
104	Anita Reddy	Suresh Khanna	95.00
105	Rahul Kumar	Priya Mehta	120.00
106	Sanya Kapoor	Alok Sharma	85.00
107	Raj Reddy	Neha Kapoor	130.00
108	Pooja Khanna	Vikas Mehta	75.00
109	Suresh Verma	Amita Singh	140.00
110	Priya Sharma	Rahul Kapoor	100.00

```
10 rows in set (0.00 sec)
```

```
mysql> /*28. List payments made on a specific date */
```

```
mysql> select * from payment where paymentDate=2023-05-08;
```

```
Empty set, 1 warning (0.00 sec)
```

```
mysql> /*29. Get Courier Information for Each Payment*/
```

```
mysql> SELECT
    ->     p.PaymentID,
    ->     p.CourierID,
    ->     p.LocationID,
    ->     p.Amount,
    ->     p.PaymentDate,
    ->     c.SenderName,
    ->     c.ReceiverName,
    ->     c.Status,
    ->     c.TrackingNumber
```

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```

->      p.PaymentDate,
->      p.Amount,
->      c.SenderName,
->      c.ReceiverName,
->      c.Status,
->      c.TrackingNumber
-> FROM
->      Payment p
-> JOIN
->      Courier c ON p.CourierID = c.CourierID;

```

CourierID	PaymentID	LocationID	PaymentDate	Amount	SenderName	ReceiverName	Status	TrackingNumber
101	501	401	2023-04-11	120.00	Amit Patel	Riya Gupta	In Transit	TN111111
102	502	402	2023-04-13	90.00	Neha Singhania	Raj Verma	Delivered	TN222222
103	503	403	2023-05-05	110.00	Vikas Kapoor	Pooja Sharma	Pending	TN333333
104	504	404	2023-05-08	95.00	Anita Reddy	Suresh Khanna	Delivered	TN444444
105	505	403	2023-05-10	120.00	Rahul Kumar	Priya Mehta	Pending	TN555555
106	506	404	2023-05-12	85.00	Sanya Kapoor	Alok Sharma	In Transit	TN666666
107	507	403	2023-05-15	130.00	Raj Reddy	Neha Kapoor	Delivered	TN777777
108	508	404	2023-05-18	75.00	Pooja Khanna	Vikas Mehta	Pending	TN888888
109	509	403	2023-05-20	140.00	Suresh Verma	Amita Singh	In Transit	TN999999
110	510	404	2023-05-22	100.00	Priya Sharma	Rahul Kapoor	Delivered	TN101010

10 rows in set (0.00 sec)

mysql> /*30. Get Payment Details with Location*/

mysql> SELECT

```

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

```

PaymentID	CourierID	LocationID	Amount	PaymentDate	LocationName	Address
501	101	401	120.00	2023-04-11	Branch Mumbai	Mumbai, Maharashtra, India
502	102	402	90.00	2023-04-13	Branch Delhi	Delhi, India

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MySQL 8.0 Command Line Client

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

PaymentID	CourierID	LocationID	Amount	PaymentDate	LocationName	Address
501	101	401	120.00	2023-04-11	Branch Mumbai	Mumbai, Maharashtra, India
502	102	402	90.00	2023-04-13	Branch Delhi	Delhi, India
503	103	403	110.00	2023-05-05	Branch Bangalore	Bangalore, Karnataka, India
504	104	404	95.00	2023-05-08	Branch Chennai	Chennai, Tamil Nadu, India
505	105	403	120.00	2023-05-10	Branch Bangalore	Bangalore, Karnataka, India
506	106	404	85.00	2023-05-12	Branch Chennai	Chennai, Tamil Nadu, India
507	107	403	130.00	2023-05-15	Branch Bangalore	Bangalore, Karnataka, India
508	108	404	75.00	2023-05-18	Branch Chennai	Chennai, Tamil Nadu, India
509	109	403	140.00	2023-05-20	Branch Bangalore	Bangalore, Karnataka, India
510	110	404	100.00	2023-05-22	Branch Chennai	Chennai, Tamil Nadu, India

10 rows in set (0.00 sec)

mysql> /*31. Calculating Total Payments for Each Courier*/

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

CourierID	SenderName	ReceiverName	TotalPayments
101	Amit Patel	Riya Gupta	120.00
102	Neha Singhania	Raj Verma	90.00
103	Vikas Kapoor	Pooja Sharma	110.00
104	Anita Reddy	Suresh Khanna	95.00
105	Rahul Kumar	Priya Mehta	120.00
106	Sanya Kapoor	Alok Sharma	85.00
107	Raj Reddy	Neha Kapoor	130.00
108	Pooja Khanna	Vikas Mehta	75.00
109	Suresh Verma	Amita Singh	140.00
110	Priya Sharma	Rahul Kapoor	100.00

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MySQL 8.0 Command Line Client

```
-> FROM
->   User u
-> LEFT JOIN
->   Courier c ON u.UserID = c.UserID;
```

ERROR 1054 (42S22): Unknown column 'c.UserID' in 'on clause'

mysql> /*32. List Payments Within a Date Range */

```
mysql> SELECT
-> *
-> FROM
->   Payment
-> WHERE
->   PaymentDate BETWEEN '2023-05-05' and '2023-05-20';
```

PaymentID	CourierID	LocationID	Amount	PaymentDate
503	103	403	110.00	2023-05-05
504	104	404	95.00	2023-05-08
505	105	403	120.00	2023-05-10
506	106	404	85.00	2023-05-12
507	107	403	130.00	2023-05-15
508	108	404	75.00	2023-05-18
509	109	403	140.00	2023-05-20

7 rows in set (0.00 sec)

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

mysql> select u.*,cs.* from users u cross join courierservices cs;

ERROR 1146 (42S02): Table 'couriermanagementsystem.users' doesn't exist

mysql> select u.*,cs.* from user u cross join courierservices cs;

UserID	Name	Email	Password	ContactNumber	Address	ServiceID	ServiceName	Cost
10	Vikas Kumar	vikas.kumar@example.com	pass123	9876543210	789 Skyline Road, Ahmedabad	201	Express	150.00
9	Anjali Verma	anjali.verma@example.com	secret321	1098765432	567 Garden Avenue, Lucknow	201	Express	150.00
8	Rahul Singh	rahul.singh@example.com	pass456	2109876543	234 Hill Street, Jaipur	201	Express	150.00
7	Suman Gupta	suman.gupta@example.com	passwordXYZ	3210987654	901 Lane, Pune	201	Express	150.00
6	Kunal Khanna	kunal.khanna@example.com	pass987	4321098765	678 Main Road, Hyderabad	201	Express	150.00
5	Neha Patel	neha.patel@example.com	secure123	5432109876	890 Street, Chennai	201	Express	150.00
4	Sneha Singh	sneha.singh@example.com	pass789	6543210987	567 Avenue Road, Kolkata	201	Express	150.00
3	Raj Kumar	raj.kumar@example.com	securepass	7654321098	789 Street, Delhi	201	Express	150.00
2	Priya Verma	priya.verma@example.com	pass456	8765432109	456 Park Avenue, Mumbai	201	Express	150.00
1	Amit Sharma	amit.sharma@example.com	password123	9876543210	123 Main Street, Bangalore	201	Express	150.00

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MySQL 8.0 Command Line Client

```
mysql> /*36. List all users and all courier services, showing all possible combinations. */
mysql> SELECT
    ->     u.UserID,
    ->     u.Name AS UserName,
    ->     cs.ServiceID,
    ->     cs.ServiceName,
    ->     cs.Cost
    -> FROM
    ->     User u
    -> CROSS JOIN
    ->     CourierServices cs;
```

UserID	UserName	ServiceID	ServiceName	Cost
10	Vikas Kumar	201	Express	150.00
9	Anjali Verma	201	Express	150.00
8	Rahul Singh	201	Express	150.00
7	Suman Gupta	201	Express	150.00
6	Kunal Khanna	201	Express	150.00
5	Neha Patel	201	Express	150.00
4	Sneha Singh	201	Express	150.00
3	Raj Kumar	201	Express	150.00
2	Priya Verma	201	Express	150.00
1	Amit Sharma	201	Express	150.00
10	Vikas Kumar	202	Standard	100.00
9	Anjali Verma	202	Standard	100.00
8	Rahul Singh	202	Standard	100.00
7	Suman Gupta	202	Standard	100.00
6	Kunal Khanna	202	Standard	100.00
5	Neha Patel	202	Standard	100.00
4	Sneha Singh	202	Standard	100.00
3	Raj Kumar	202	Standard	100.00
2	Priya Verma	202	Standard	100.00
1	Amit Sharma	202	Standard	100.00
10	Vikas Kumar	203	Premium	200.00
9	Anjali Verma	203	Premium	200.00
8	Rahul Singh	203	Premium	200.00
7	Suman Gupta	203	Premium	200.00
6	Kunal Khanna	203	Premium	200.00
5	Neha Patel	203	Premium	200.00
4	Sneha Singh	203	Premium	200.00
3	Raj Kumar	203	Premium	200.00
2	Priya Verma	203	Premium	200.00

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MySQL 8.0 Command Line Client

```
mysql> /*37. List all employees and all locations, showing all possible combinations:*/
```

```
mysql> SELECT
->     e.EmployeeID,
->     e.Name AS EmployeeName,
->     l.LocationID,
->     l.LocationName,
->     l.Address
-> FROM
->     Employee e
-> CROSS JOIN
->     Location l;
```

EmployeeID	EmployeeName	LocationID	LocationName	Address
310	Alok Khanna	401	Branch Mumbai	Mumbai, Maharashtra, India
309	Anita Verma	401	Branch Mumbai	Mumbai, Maharashtra, India
308	Suresh Kumar	401	Branch Mumbai	Mumbai, Maharashtra, India
307	Pooja Verma	401	Branch Mumbai	Mumbai, Maharashtra, India
306	Vikas Sharma	401	Branch Mumbai	Mumbai, Maharashtra, India
305	Neha Singh	401	Branch Mumbai	Mumbai, Maharashtra, India
304	Sanya Gupta	401	Branch Mumbai	Mumbai, Maharashtra, India
303	Rahul Sharma	401	Branch Mumbai	Mumbai, Maharashtra, India
302	Priya Singh	401	Branch Mumbai	Mumbai, Maharashtra, India
301	Amit Kumar	401	Branch Mumbai	Mumbai, Maharashtra, India
310	Alok Khanna	402	Branch Delhi	Delhi, India
309	Anita Verma	402	Branch Delhi	Delhi, India
308	Suresh Kumar	402	Branch Delhi	Delhi, India
307	Pooja Verma	402	Branch Delhi	Delhi, India
306	Vikas Sharma	402	Branch Delhi	Delhi, India
305	Neha Singh	402	Branch Delhi	Delhi, India
304	Sanya Gupta	402	Branch Delhi	Delhi, India
303	Rahul Sharma	402	Branch Delhi	Delhi, India
302	Priya Singh	402	Branch Delhi	Delhi, India
301	Amit Kumar	402	Branch Delhi	Delhi, India
310	Alok Khanna	403	Branch Bangalore	Bangalore, Karnataka, India
309	Anita Verma	403	Branch Bangalore	Bangalore, Karnataka, India
308	Suresh Kumar	403	Branch Bangalore	Bangalore, Karnataka, India
307	Pooja Verma	403	Branch Bangalore	Bangalore, Karnataka, India
306	Vikas Sharma	403	Branch Bangalore	Bangalore, Karnataka, India
305	Neha Singh	403	Branch Bangalore	Bangalore, Karnataka, India
304	Sanya Gupta	403	Branch Bangalore	Bangalore, Karnataka, India
303	Rahul Sharma	403	Branch Bangalore	Bangalore, Karnataka, India
302	Priya Singh	403	Branch Bangalore	Bangalore, Karnataka, India

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```
MySQL 8.0 Command Line Client
mysql>
mysql> /*38. Retrieve a list of couriers and their corresponding sender information (if available)*/
mysql> select * from courier c left join user u
   -> on c.SenderName=u.name;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate | UserID | Name | Email | P
assword | ContactNumber | Address |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Amit Patel | Sender Address 11 | Riya Gupta | Receiver Address 11 | 2.30 | In Transit | TN111111 | 2023-05-01 | NULL | NULL | NULL | N
ULL | NULL | NULL |
| 102 | Neha Singhania | Sender Address 12 | Raj Verma | Receiver Address 12 | 1.50 | Delivered | TN222222 | 2023-05-03 | NULL | NULL | NULL | N
ULL | NULL | NULL |
| 103 | Vikas Kapoor | Sender Address 13 | Pooja Sharma | Receiver Address 13 | 3.00 | Pending | TN333333 | NULL | NULL | NULL | NULL | N
ULL | NULL | NULL |
| 104 | Anita Reddy | Sender Address 14 | Suresh Khanna | Receiver Address 14 | 2.20 | Delivered | TN444444 | 2023-05-06 | NULL | NULL | NULL | N
ULL | NULL | NULL |
| 105 | Rahul Kumar | Sender Address 15 | Priya Mehta | Receiver Address 15 | 1.80 | Pending | TN555555 | NULL | NULL | NULL | NULL | N
ULL | NULL | NULL |
| 106 | Sanya Kapoor | Sender Address 16 | Alok Sharma | Receiver Address 16 | 3.50 | In Transit | TN666666 | 2023-05-09 | NULL | NULL | NULL | N
ULL | NULL | NULL |
| 107 | Raj Reddy | Sender Address 17 | Neha Kapoor | Receiver Address 17 | 1.00 | Delivered | TN777777 | 2023-05-11 | NULL | NULL | NULL | N
ULL | NULL | NULL |
| 108 | Pooja Khanna | Sender Address 18 | Vikas Mehta | Receiver Address 18 | 2.50 | Pending | TN888888 | NULL | NULL | NULL | NULL | N
ULL | NULL | NULL |
| 109 | Suresh Verma | Sender Address 19 | Amita Singh | Receiver Address 19 | 3.80 | In Transit | TN999999 | 2023-05-14 | NULL | NULL | NULL | N
ULL | NULL | NULL |
| 110 | Priya Sharma | Sender Address 20 | Rahul Kapoor | Receiver Address 20 | 1.20 | Delivered | TN101010 | 2023-05-16 | NULL | NULL | NULL | N
ULL | NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.01 sec)

mysql> /*39. Retrieve a list of couriers and their corresponding receiver information (if available): */
mysql> select * from courier c left join user u
   -> on c.ReceiverName=u.name;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate | UserID | Name | Email | P
assword | ContactNumber | Address |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Amit Patel | Sender Address 11 | Riya Gupta | Receiver Address 11 | 2.30 | In Transit | TN111111 | 2023-05-01 | NULL | NULL | NULL | N
ULL | NULL | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+-----+
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```

```
mysql> /*40. Retrieve a list of couriers along with the courier service details (if available):*/
```

```
sql> SELECT
->      c.*,
->      cs.ServiceID,
->      cs.ServiceName,
->      cs.Cost
->  FROM
->    Courier c
-> LEFT JOIN
->    CourierServices cs ON c.ServiceID = cs.ServiceID;
```

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MySQL 8.0 Command Line Client

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '' at line 9
mysql> /*41. Retrieve a list of employees and the number of couriers assigned to each employee:*/

```
mysql> SELECT
    ->     e.EmployeeID,
    ->     e.Name AS EmployeeName,
    ->     COUNT(c.CourierID) AS NumCouriersAssigned
    -> FROM
    ->     Employee e
    -> LEFT JOIN
    ->     Courier c ON e.EmployeeID = c.courierID
    -> GROUP BY
    ->     e.EmployeeID, e.Name;
```

EmployeeID	EmployeeName	NumCouriersAssigned
301	Amit Kumar	0
302	Priya Singh	0
303	Rahul Sharma	0
304	Sanya Gupta	0
305	Neha Singh	0
306	Vikas Sharma	0
307	Pooja Verma	0
308	Suresh Kumar	0
309	Anita Verma	0
310	Alok Khanna	0

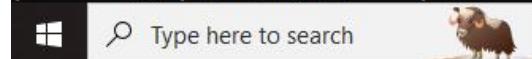
10 rows in set (0.00 sec)

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

```
mysql> SELECT
    ->     l.LocationID,
    ->     l.LocationName,
    ->     COALESCE(SUM(p.Amount),0) AS TotalPaymentAmount
    -> FROM
    ->     Location l
    -> LEFT JOIN
    ->     Payment p ON l.LocationID = p.LocationID
    -> GROUP BY
    ->     l.LocationID, l.LocationName;
```

LocationID	LocationName	TotalPaymentAmount
401	Branch Mumbai	120.00
402	Branch Delhi	90.00

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MySQL 8.0 Command Line Client

mysql> /*43. Retrieve all couriers sent by the same sender (based on SenderName). */

```
mysql> SELECT
    ->      c1.*
    ->      FROM
    ->      Courier c1
    ->      JOIN
    ->      Courier c2 ON c1.SenderName = c2.SenderName AND c1.CourierID <> c2.CourierID
    ->      ORDER BY
    ->      c1.SenderName, c1.CourierID;
Empty set (0.03 sec)
```

mysql> /*44. List all employees who share the same role. */

```
mysql>
mysql> SELECT
    ->      e1.*
    ->      FROM
    ->      Employee e1
    ->      JOIN
    ->      Employee e2 ON e1.Role = e2.Role AND e1.EmployeeID <> e2.EmployeeID
    ->      ORDER BY
    ->      e1.Role, e1.EmployeeID;
```

EmployeeID	Name	Email	ContactNumber	Role	Salary
302	Priya Singh	priya.singh@example.com	8765432109	Delivery Person	30000.00
302	Priya Singh	priya.singh@example.com	8765432109	Delivery Person	30000.00
302	Priya Singh	priya.singh@example.com	8765432109	Delivery Person	30000.00
302	Priya Singh	priya.singh@example.com	8765432109	Delivery Person	30000.00
304	Sanya Gupta	sanya.gupta@example.com	6543210987	Delivery Person	28000.00
304	Sanya Gupta	sanya.gupta@example.com	6543210987	Delivery Person	28000.00
304	Sanya Gupta	sanya.gupta@example.com	6543210987	Delivery Person	28000.00
304	Sanya Gupta	sanya.gupta@example.com	6543210987	Delivery Person	28000.00
306	Vikas Sharma	vikas.sharma@example.com	4321098765	Delivery Person	32000.00
306	Vikas Sharma	vikas.sharma@example.com	4321098765	Delivery Person	32000.00
306	Vikas Sharma	vikas.sharma@example.com	4321098765	Delivery Person	32000.00
306	Vikas Sharma	vikas.sharma@example.com	4321098765	Delivery Person	32000.00
308	Suresh Kumar	suresh.kumar@example.com	2109876543	Delivery Person	31000.00
308	Suresh Kumar	suresh.kumar@example.com	2109876543	Delivery Person	31000.00
308	Suresh Kumar	suresh.kumar@example.com	2109876543	Delivery Person	31000.00
308	Suresh Kumar	suresh.kumar@example.com	2109876543	Delivery Person	31000.00
310	Alok Khanna	alok.khanna@example.com	9876543210	Delivery Person	33000.00
310	Alok Khanna	alok.khanna@example.com	9876543210	Delivery Person	33000.00
310	Alok Khanna	alok.khanna@example.com	9876543210	Delivery Person	33000.00
310	Alok Khanna	alok.khanna@example.com	9876543210	Delivery Person	33000.00

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```
->      p.PaymentDate
->  FROM
->      Payment p
->  JOIN
->      Courier c1 ON p.CourierID = c1.CourierID
->  JOIN
->      Courier c2 ON c1.LocationID = c2.LocationID AND c1.CourierID <> c2.CourierID;
```

ERROR 1054 (42S22): Unknown column 'c1.LocationID' in 'on clause'

mysql> SELECT

```
->      c1.CourierID AS CourierID1,
->      c1.SenderName AS SenderName1,
->      c1.SenderAddress AS SenderAddress1,
->      c2.CourierID AS CourierID2,
->      c2.SenderName AS SenderName2,
->      c2.SenderAddress AS SenderAddress2
->  FROM
->      Courier c1
->  JOIN
->      Courier c2 ON c1.SenderAddress = c2.SenderAddress AND c1.CourierID <> c2.CourierID;
```

Empty set (0.00 sec)

mysql> /*46. Retrieve all couriers sent from the same location (based on SenderAddress). */

mysql> SELECT

```
->      c1.CourierID AS CourierID1,
->      c1.SenderName AS SenderName1,
->      c1.SenderAddress AS SenderAddress1,
->      c2.CourierID AS CourierID2,
->      c2.SenderName AS SenderName2,
->      c2.SenderAddress AS SenderAddress2
->  FROM
->      Courier c1
->  JOIN
->      Courier c2 ON c1.SenderAddress = c2.SenderAddress AND c1.CourierID <> c2.CourierID;
```

Empty set (0.00 sec)

mysql> /*47. List employees and the number of couriers they have delivered:*/

mysql> SELECT

```
->      e.EmployeeID,
->      e.Name AS EmployeeName,
->      COUNT(c.CourierID) AS NumberOfDeliveries
->  FROM
->      Employee e
->  LEFT JOIN
->      Courier c ON e.EmployeeID = c.EmployeeID
```

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```
mysql>
mysql> /*Scope: Inner Queries, Non Equi Joins, Equi joins,Exist,Any,All */
mysql> /*49. Find couriers that have a weight greater than the average weight of all couriers*/
mysql> SELECT
    ->     CourierID,
    ->     SenderName,
    ->     Weight,
    ->     AVG(Weight) OVER () AS AverageCourierWeight
-> FROM
->     Courier
-> WHERE
->     Weight > (SELECT AVG(Weight) FROM Courier);
```

CourierID	SenderName	Weight	AverageCourierWeight
101	Amit Patel	2.30	3.020000
103	Vikas Kapoor	3.00	3.020000
106	Sanya Kapoor	3.50	3.020000
108	Pooja Khanna	2.50	3.020000
109	Suresh Verma	3.80	3.020000

5 rows in set (0.01 sec)

```
mysql> /*50. Find the names of all employees who have a salary greater than the average salary: */
```

```
mysql> SELECT
    ->     Name,
    ->     Salary,
    ->     AVG(Salary) OVER () AS AverageSalary
-> FROM
->     Employee
-> WHERE
->     Salary > (SELECT AVG(Salary) FROM Employee);
```

Name	Salary	AverageSalary
Amit Kumar	60000.00	58600.000000
Rahul Sharma	55000.00	58600.000000
Neha Singh	60000.00	58600.000000
Pooja Verma	58000.00	58600.000000
Anita Verma	60000.00	58600.000000

5 rows in set (0.01 sec)

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```
MySQL 8.0 Command Line Client
->     Couriers c
-> ;
ERROR 1146 (42S02): Table 'couriermanagementsystem.couriers' doesn't exist
mysql>
mysql> /*51. Find the total cost of all courier services where the cost is less than the maximum cost*/
mysql> SELECT
->     SUM(Cost) AS TotalCost
->     from CourierServices
-> WHERE
->     Cost < (SELECT MAX(Cost) FROM CourierServices);
+-----+
| TotalCost |
+-----+
| 1130.00 |
+-----+
1 row in set (0.00 sec)

mysql> /*52. Find all couriers that have been paid for */
mysql> SELECT
->     c.*
->     FROM
->     Courier c
-> JOIN
->     Payment p on c.courierid=p.courierid;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status | TrackingNumber | DeliveryDate |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 101 | Amit Patel | Sender Address 11 | Riya Gupta | Receiver Address 11 | 2.30 | In Transit | TN111111 | 2023-05-01 |
| 102 | Neha Singhania | Sender Address 12 | Raj Verma | Receiver Address 12 | 1.50 | Delivered | TN222222 | 2023-05-03 |
| 103 | Vikas Kapoor | Sender Address 13 | Pooja Sharma | Receiver Address 13 | 3.00 | Pending | TN333333 | NULL |
| 104 | Anita Reddy | Sender Address 14 | Suresh Khanna | Receiver Address 14 | 2.20 | Delivered | TN444444 | 2023-05-06 |
| 105 | Rahul Kumar | Sender Address 15 | Priya Mehta | Receiver Address 15 | 1.80 | Pending | TN555555 | NULL |
| 106 | Sanya Kapoor | Sender Address 16 | Alok Sharma | Receiver Address 16 | 3.50 | In Transit | TN666666 | 2023-05-09 |
| 107 | Raj Reddy | Sender Address 17 | Neha Kapoor | Receiver Address 17 | 1.00 | Delivered | TN777777 | 2023-05-11 |
| 108 | Pooja Khanna | Sender Address 18 | Vikas Mehta | Receiver Address 18 | 2.50 | Pending | TN888888 | NULL |
| 109 | Suresh Verma | Sender Address 19 | Amita Singh | Receiver Address 19 | 3.80 | In Transit | TN999999 | 2023-05-14 |
| 110 | Priya Sharma | Sender Address 20 | Rahul Kapoor | Receiver Address 20 | 1.20 | Delivered | TN101010 | 2023-05-16 |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
10 rows in set (0.00 sec)
```

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MySQL 8.0 Command Line Client

```
mysql> /*53. Find the locations where the maximum payment amount was made
    */> /*
mysql> SELECT LocationID, MAX(Amount) AS MaxPaymentAmount
    -> FROM Payment
    -> GROUP BY LocationID;
+-----+-----+
| LocationID | MaxPaymentAmount |
+-----+-----+
|      401 |        120.00 |
|      402 |         90.00 |
|      403 |        140.00 |
|      404 |        100.00 |
+-----+-----+
4 rows in set (0.00 sec)

mysql> /*54. Find all couriers whose weight is greater than the weight of all couriers sent by a specific sender
    */> (e.g., 'SenderName'): */
mysql> SELECT c.CourierID, c.Weight
    -> FROM Courier c
    -> WHERE c.Weight > (SELECT MAX(c2.Weight)
    ->                      FROM Courier c2
    ->                      WHERE c2.SenderName = 'Amit Patel');
+-----+-----+
| CourierID | Weight |
+-----+-----+
|      103 |     3.00 |
|      106 |     3.50 |
|      108 |     2.50 |
|      109 |     3.80 |
+-----+-----+
4 rows in set (0.01 sec)
```

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