**HEXAWARE ASSIGNMENT**

**ASSIGNMENT 4- COURIER MANAGEMENT SYSTEM**

**TABLE CREATION:**

mysql> CREATE DATABASE ASSIGNMENT;

Query OK, 1 row affected (0.03 sec)

mysql> show databases;

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

| Database |

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

| assignment |

| information\_schema |

| mysql |

| performance\_schema |

| sys |

| testdb |

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

6 rows in set (0.00 sec)

mysql> use assignment;

Database changed

mysql> CREATE TABLE User (UserID int, Name varchar(255), Email varchar(255), Password varchar(255), ContactNumber varchar(255), Address TEXT, CONSTRAINT user\_userid\_pk PRIMARY KEY(userid), CONSTRAINT uq\_email UNIQUE (Email));

Query OK, 0 rows affected (0.05 sec)

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(255) | YES | | NULL | |

| Address | text | YES | | NULL | |

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

6 rows in set (0.00 sec)

mysql> CREATE TABLE Courier (CourierID int, SenderName varchar(255), SenderAddress TEXT, ReceiverName varchar(255), ReceiverAddress TEXT, Weight decimal(5,2), Status varchar(50), TrackingNumber varchar(20), DeliveryDate date, CONSTRAINT table\_courierId\_pk PRIMARY KEY(CourierID), CONSTRAINT uq\_trackingnumber UNIQUE (trackingNumber));

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 (0.03 sec)

mysql> CREATE TABLE CourierServices(ServiceID int, ServiceName varchar(100), Cost decimal(8,

2), CONSTRAINT table\_ServiceId\_pk PRIMARY KEY(ServiceID));

Query OK, 0 rows affected (0.05 sec)

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> CREATE TABLE Employee\_Table(EmployeeID int,Name varchar(255), Email varchar(255), ContactNumber varchar(20), Role varchar(50), Salary decimal(10,2), CONSTRAINT emp\_empid\_pk PRIMARY KEY(employeeid), CONSTRAINT uq\_email UNIQUE (Email));

Query OK, 0 rows affected (0.03 sec)

mysql> desc Employee\_Table;

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

| 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 (0.00 sec)

mysql> CREATE TABLE Location\_Table(LocationID int, LocationName varchar(100), Address TEXT, CONSTRAINT loc\_locid\_pk PRIMARY KEY(LocationID));

Query OK, 0 rows affected (0.04 sec)

mysql> desc Location\_Table;

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

| 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> CREATE TABLE Payment\_Table(PaymentId int,CourierId int, LocationId int, Amount Decimal(10,2), PaymentDate Date,CONSTRAINT Pay\_Payid\_pk PRIMARY KEY(PaymentId), CONSTRAINT FOREIGN

KEY (CourierId) REFERENCES Courier(CourierID), CONSTRAINT FOREIGN KEY (LocationId) REFERENCES LOCATION\_TABLE(LOCATIONID));

Query OK, 0 rows affected (0.06 sec)

mysql> desc Payment\_Table;

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

| 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 (0.00 sec)  
  
**Insertion of duplicate values:**

mysql> INSERT INTO user (UserID, Name, Email, Password, ContactNumber, Address) VALUES

-> (1, 'John Doe', 'john.doe@example.com', 'Pass@123', '9876543210', '123 Main St, New York'),

-> (2, 'Jane Smith', 'jane.smith@example.com', 'Jane#456', '9876543220', '456 Oak St, Los Angeles'),

-> (3, 'Alice Brown', 'alice.brown@example.com', 'Alice@789', '9876543230', '789 Pine St, Chicago'),

-> (4, 'Bob Johnson', 'bob.johnson@example.com', 'Bob@101', '9876543240', '101 Maple St, Houston'),

-> (5, 'Emily Davis', 'emily.davis@example.com', 'Emily#202', '9876543250', '202 Cedar St, Miami'),

-> (6, 'Michael Wilson', 'michael.wilson@example.com', 'Mike@303', '9876543260', '303 Elm St, Seattle');

Query OK, 6 rows affected (0.03 sec)

Records: 6 Duplicates: 0 Warnings: 0

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(255) | YES | | NULL | |

| Address | text | YES | | NULL | |

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

6 rows in set (0.01 sec)

mysql> select \* from user;

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

| UserID | Name | Email | Password | ContactNumber | Address |

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

| 1 | John Doe | john.doe@example.com | Pass@123 | 9876543210 | 123 Main St, New York |

| 2 | Jane Smith | jane.smith@example.com | Jane#456 | 9876543220 | 456 Oak St, Los Angeles |

| 3 | Alice Brown | alice.brown@example.com | Alice@789 | 9876543230 | 789 Pine St, Chicago |

| 4 | Bob Johnson | bob.johnson@example.com | Bob@101 | 9876543240 | 101 Maple St, Houston |

| 5 | Emily Davis | emily.davis@example.com | Emily#202 | 9876543250 | 202 Cedar St, Miami |

| 6 | Michael Wilson | michael.wilson@example.com | Mike@303 | 9876543260 | 303 Elm St, Seattle |

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

6 rows in set (0.00 sec)

mysql> INSERT INTO courier (CourierID, SenderName, SenderAddress, ReceiverName, ReceiverAddress, Weight, Status, TrackingNumber, DeliveryDate) VALUES

-> (1, 'John Doe', '123 Main St, NY', 'Jane Smith', '456 Oak St, LA', 5.50, 'In Transit', 'TRK123456', '2025-03-30'),

-> (2, 'Alice Brown', '789 Pine St, Chicago', 'Bob Johnson', '101 Maple St, Houston', 2.75, 'Delivered', 'TRK234567', '2025-03-25'),

-> (3, 'Emily Davis', '202 Cedar St, Miami', 'Michael Wilson', '303 Elm St, Seattle', 1.90, 'Pending', 'TRK345678', '2025-04-01'),

-> (4, 'Jane Smith', '456 Oak St, LA', 'John Doe', '123 Main St, NY', 4.20, 'In Transit', 'TRK456789', '2025-03-29'),

-> (5, 'Michael Wilson', '303 Elm St, Seattle', 'Emily Davis', '202 Cedar St, Miami', 3.60, 'Out for Delivery', 'TRK567890', '2025-03-31'),

-> (6, 'Bob Johnson', '101 Maple St, Houston', 'Alice Brown', '789 Pine St, Chicago', 6.80, 'Delivered', 'TRK678901', '2025-03-27');

Query OK, 6 rows affected (0.01 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> select \* from courier;

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

| CourierID | SenderName | SenderAddress | ReceiverName | ReceiverAddress | Weight | Status

| TrackingNumber | DeliveryDate |

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

| 1 | John Doe | 123 Main St, NY | Jane Smith | 456 Oak St, LA | 5.50 | In Transit | TRK123456 | 2025-03-30 |

| 2 | Alice Brown | 789 Pine St, Chicago | Bob Johnson | 101 Maple St, Houston | 2.75 | Delivered | TRK234567 | 2025-03-25 |

| 3 | Emily Davis | 202 Cedar St, Miami | Michael Wilson | 303 Elm St, Seattle | 1.90 | Pending | TRK345678 | 2025-04-01 |

| 4 | Jane Smith | 456 Oak St, LA | John Doe | 123 Main St, NY | 4.20 | In Transit | TRK456789 | 2025-03-29 |

| 5 | Michael Wilson | 303 Elm St, Seattle | Emily Davis | 202 Cedar St, Miami | 3.60 | Out for Delivery | TRK567890 | 2025-03-31 |

| 6 | Bob Johnson | 101 Maple St, Houston | Alice Brown | 789 Pine St, Chicago | 6.80 | Delivered | TRK678901 | 2025-03-27 |

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

6 rows in set (0.00 sec)

mysql> INSERT INTO courierservices (ServiceID, ServiceName, Cost) VALUES

-> (1, 'Standard Delivery', 50.00),

-> (2, 'Express Delivery', 100.00),

-> (3, 'Overnight Delivery', 150.00),

-> (4, 'International Shipping', 200.00),

-> (5, 'Same-Day Delivery', 120.00),

-> (6, 'Freight Shipping', 300.00);

Query OK, 6 rows affected (0.01 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> select \* from courierservices;

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

| ServiceID | ServiceName | Cost |

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

| 1 | Standard Delivery | 50.00 |

| 2 | Express Delivery | 100.00 |

| 3 | Overnight Delivery | 150.00 |

| 4 | International Shipping | 200.00 |

| 5 | Same-Day Delivery | 120.00 |

| 6 | Freight Shipping | 300.00 |

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

6 rows in set (0.00 sec)

mysql> INSERT INTO employee\_table (EmployeeID, Name, Email, ContactNumber, Role, Salary) VALUES

-> (1, 'David Miller', 'david.miller@example.com', '9876543270', 'Delivery Driver', 35000.00),

-> (2, 'Sophia Lee', 'sophia.lee@example.com', '9876543280', 'Warehouse Manager', 45000.00),

-> (3, 'James Anderson', 'james.anderson@example.com', '9876543290', 'Logistics Coordinator', 40000.00),

-> (4, 'Linda Martinez', 'linda.martinez@example.com', '9876543300', 'Customer Support', 32000.00),

-> (5, 'Robert Thomas', 'robert.thomas@example.com', '9876543310', 'Fleet Manager', 55000.00),

-> (6, 'Jessica Wilson', 'jessica.wilson@example.com', '9876543320', 'Dispatcher', 38000.00);

Query OK, 6 rows affected (0.01 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> select \* from employee\_table;

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

| EmployeeID | Name | Email | ContactNumber | Role | Salary |

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

| 1 | David Miller | david.miller@example.com | 9876543270 | Delivery Driver | 35000.00 |

| 2 | Sophia Lee | sophia.lee@example.com | 9876543280 | Warehouse Manager | 45000.00 |

| 3 | James Anderson | james.anderson@example.com | 9876543290 | Logistics Coordinator | 40000.00 |

| 4 | Linda Martinez | linda.martinez@example.com | 9876543300 | Customer Support | 32000.00 |

| 5 | Robert Thomas | robert.thomas@example.com | 9876543310 | Fleet Manager | 55000.00 |

| 6 | Jessica Wilson | jessica.wilson@example.com | 9876543320 | Dispatcher | 38000.00 |

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

6 rows in set (0.00 sec)

mysql> INSERT INTO location\_table (LocationID, LocationName, Address) VALUES

-> (1, 'New York Hub', '123 Warehouse Ave, NY'),

-> (2, 'Los Angeles Depot', '456 Shipping Lane, LA'),

-> (3, 'Chicago Center', '789 Freight St, Chicago'),

-> (4, 'Houston Terminal', '101 Cargo Blvd, Houston'),

-> (5, 'Miami Station', '202 Express Rd, Miami'),

-> (6, 'Seattle Facility', '303 Logistics Dr, Seattle');

Query OK, 6 rows affected (0.00 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> select \* from location\_table;

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

| LocationID | LocationName | Address

|

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

| 1 | New York Hub | 123 Warehouse Ave, NY |

| 2 | Los Angeles Depot | 456 Shipping Lane, LA |

| 3 | Chicago Center | 789 Freight St, Chicago |

| 4 | Houston Terminal | 101 Cargo Blvd, Houston |

| 5 | Miami Station | 202 Express Rd, Miami |

| 6 | Seattle Facility | 303 Logistics Dr, Seattle |

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

6 rows in set (0.00 sec)

mysql> INSERT INTO payment\_table (PaymentID, CourierID, LocationID, Amount, PaymentDate) VALUES

-> (1, 1, 1, 50.00, '2025-03-28'),

-> (2, 2, 3, 100.00, '2025-03-26'),

-> (3, 3, 5, 75.00, '2025-04-02'),

-> (4, 4, 2, 120.00, '2025-03-29'),

-> (5, 5, 6, 90.00, '2025-04-01'),

-> (6, 6, 4, 60.00, '2025-03-27');

Query OK, 6 rows affected (0.01 sec)

Records: 6 Duplicates: 0 Warnings: 0

mysql> select \* from payment\_table;

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

| PaymentId | CourierId | LocationId | Amount | PaymentDate |

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

| 1 | 1 | 1 | 50.00 | 2025-03-28 |

| 2 | 2 | 3 | 100.00 | 2025-03-26 |

| 3 | 3 | 5 | 75.00 | 2025-04-02 |

| 4 | 4 | 2 | 120.00 | 2025-03-29 |

| 5 | 5 | 6 | 90.00 | 2025-04-01 |

| 6 | 6 | 4 | 60.00 | 2025-03-27 |

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

6 rows in set (0.00 sec)