## **Queries to Create tables**

USE drop\_24;

#### Customers table

```
CREATE TABLE Customers (
    customer_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    customer_name VARCHAR(100) NOT NULL,
    customer_email VARCHAR(100) UNIQUE NOT NULL,
    customer_Phone_number VARCHAR(20) NOT NULL,
    customer_password VARCHAR(100) NOT NULL,
    customer_DOB DATE,
    customer_age INT
);
```

### • Customer Address table

```
CREATE TABLE Customer_Addresses (
address_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
customer_id INT NOT NULL,
address_line VARCHAR(255) NOT NULL,
city VARCHAR(100) NOT NULL,
state VARCHAR(100),
postal_code VARCHAR(20),
country VARCHAR(100),
FOREIGN KEY (customer_id) REFERENCES Customers(customer_id)
);
```

### Categories table

```
CREATE TABLE Categories (
category_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
category_name VARCHAR(100) NOT NULL,
category_description VARCHAR(300) NOT NULL
```

#### Admins table

```
CREATE TABLE Admins (
    admin_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    admin_name VARCHAR(100) NOT NULL,
    admin_password VARCHAR(100) NOT NULL
);
```

## Products table

```
CREATE TABLE Products (
    product_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    product_name VARCHAR(100) NOT NULL,
    product_price NUMERIC(10, 2) NOT NULL,
    category_id INT NOT NULL,
    product_quantity INT NOT NULL,
    FOREIGN KEY (category_id) REFERENCES Categories(category_id)
);
```

#### Vendors table

```
CREATE TABLE Vendors (
vendor_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
vendor_name VARCHAR(100) NOT NULL,
vendor_email VARCHAR(100) UNIQUE NOT NULL,
vendor_password VARCHAR(100) NOT NULL,
vendor_phone_number VARCHAR(20) NOT NULL
);
```

• Product Inventory table to track individual products and quantities

```
CREATE TABLE Product_Inventory (
    product_inventory_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    product_id INT NOT NULL,
```

```
category_id INT NOT NULL,
quantity INT NOT NULL,
vendor_id INT NOT NULL,
FOREIGN KEY (product_id) REFERENCES Products(product_id),
FOREIGN KEY (vendor_id) REFERENCES Vendors(vendor_id),
FOREIGN KEY (category_id) REFERENCES Categories(category_id)
);
```

#### Orders table

```
CREATE TABLE Orders (
order_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
customer_id INT NOT NULL,
order_date DATE NOT NULL,
order_status VARCHAR(20),
FOREIGN KEY (customer_id) REFERENCES Customers(customer_id)
);
```

## Order\_details table

```
CREATE TABLE Order_details (
    order_details_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    order_id INT NOT NULL,
    product_id INT NOT NULL,
    product_quantity INT NOT NULL,
    FOREIGN KEY (order_id) REFERENCES Orders(order_id),
    FOREIGN KEY (product_id) REFERENCES Products(product_id)
);
```

## Delivery Agents table

```
CREATE TABLE Delivery_Agents (
    agent_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
    agent_name VARCHAR(100) NOT NULL,
    agent_phone VARCHAR(20) NOT NULL,
    agent_age INT,
    agent_DOB DATE,
    order_id INT NOT NULL,
    FOREIGN KEY (order_id) REFERENCES Orders(order_id)
);
```

## Tracking Details table

```
CREATE TABLE Tracking_Details (
  tracking_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
  order id INT NOT NULL,
  agent_id INT NOT NULL,
  tracking_status VARCHAR(50) NOT NULL,
  FOREIGN KEY (order id) REFERENCES Orders(order id),
  FOREIGN KEY (agent_id) REFERENCES Delivery_Agents(agent_id)
);
      Discounts table
CREATE TABLE Discounts (
  discount_id INT NOT NULL AUTO_INCREMENT PRIMARY KEY,
  discount_name VARCHAR(100) NOT NULL,
  category_id INT,
  product_id INT,
  discount amount NUMERIC(5, 2) NOT NULL,
  FOREIGN KEY (category_id) REFERENCES Categories(category_id),
  FOREIGN KEY (product_id) REFERENCES Products(product_id)
);
     Website table
CREATE TABLE website (
  URL VARCHAR(100) NOT NULL,
```

name VARCHAR(40) NOT NULL

);

## **Indexes**

```
CREATE INDEX idx_customer_email ON Customers(customer_email);
CREATE INDEX idx_product_category_id ON Products(category_id);
CREATE INDEX idx_order_customer_id ON Orders(customer_id);
CREATE INDEX idx_delivery_agent_order_id ON Delivery_Agents(order_id);
CREATE INDEX idx_order_details_order_id ON Order_details(order_id);
CREATE INDEX idx_order_details_product_id ON Order_details(product_id);
CREATE INDEX idx_discounts_category_id ON Discounts(category_id);
CREATE INDEX idx_discounts_product_id ON Discounts(product_id);
CREATE INDEX idx_vendor_email ON Vendors(vendor_email);
```

# Queries to populate the tables

Insert sample data into Categories table

INSERT INTO Categories (category\_name, category\_description)
VALUES ('Electronics', 'Electronic devices and accessories'),
 ('Clothing', 'Apparel and fashion accessories'),
 ('Books', 'Books of various genres');

Insert sample data into Admins table
 INSERT INTO Admins (admin\_name, admin\_password)
 VALUES ('Admin1', 'Hashed\_admin\_password1'),
 ('Admin2', 'Hashed\_admin\_password2');

Insert sample data into Products table

INSERT INTO Products (product\_name, product\_price, category\_id, product\_quantity) VALUES ('Smartphone', 599.99, 1, 100), ('T-shirt', 19.99, 2, 200),

('Headphones', 49.99, 1, 150);

Insert sample data into Vendors table
 INSERT INTO Vendors (vendor name, vendor email, vendor password,

vendor\_phone\_number)

VALUES ('Vendor1', 'vendor1@example.com', 'Hashed\_vendor\_password1', '+1234567890'), ('Vendor2', 'vendor2@example.com', 'Hashed\_vendor\_password2', '+1987654321');

Insert sample data into Product\_Inventory table

INSERT INTO Product\_Inventory (product\_id, category\_id, quantity, vendor\_id) VALUES (1, 1, 50, 1),

(2, 2, 100, 2), (3, 1, 75, 1);

• Insert sample data into Customers table

INSERT INTO Customers (customer\_name, customer\_email, customer\_Phone\_number, customer\_password, customer\_DOB, customer\_age)

VALUES ('Naruto', 'naruto\_uzumaki@gmail.com', '+919990875847', 'Hashed\_password123', '1990-01-01', 32),

('Sasuke', 'Sasuke\_uchiha@gmail.com', '+919810665049', 'Hashed\_password456', '1995-05-15', 27);

• Insert sample data into Customer\_Addresses table INSERT INTO Customer\_Addresses (customer\_id, address\_line, city, state, postal\_code, country)

```
VALUES (4, 'Vasant Vihar H-34', 'New Delhi', 'Delhi', '110020', 'India'), (3, 'Malviye nagar', 'New Delhi', 'Delhi', '110057', 'India'), (4, 'Hauz Khas', 'New Delhi', 'Delhi', '110057', 'India');
```

Insert sample data into Orders table
 INSERT INTO Orders (customer\_id, order\_date, order\_status)
 VALUES (1, '2023-01-15', 'Pending'),
 (2, '2023-02-20', 'Shipped');

Insert sample data into Order\_details table
 INSERT INTO Order\_details (order\_id, product\_id, product\_quantity)
 VALUES (1, 1, 2),
 (1, 2, 3),
 (2, 3, 1);

Insert sample data into Delivery\_Agents table
 INSERT INTO Delivery\_Agents (agent\_name, agent\_phone, agent\_age, agent\_DOB, order\_id)
 VALUES ('Vinod Kumar', '+919865748392', 30, '1992-03-10', 1),
 ('Rahul Jha', '+918574663728', 25, '1997-07-20', 2);

Insert sample data into Tracking\_Details table
 INSERT INTO Tracking\_Details (order\_id, agent\_id, tracking\_status)
 VALUES (1, 1, 'Out for delivery'),
 (2, 2, 'Delivered');

Insert sample data into Discounts table
 INSERT INTO Discounts (discount\_name, category\_id, product\_id, discount\_amount)
 VALUES ('Electronics Sale', 1, NULL, 10.00),
 ('Summer Clearance', NULL, 2, 5.00);

 Insert sample data into Website table INSERT INTO website (URL, name)
 VALUES ('https://drop24.com', 'Drop 24');