

DATA DEFINITION LANGUAGE AND MANIPULATION LANGUAGE IN MYSQL

-- creating a new database 'AmazonDB'

CREATE DATABASE AmazonDB;

-- creating tables within AmazonDB database

-- I can use the USE syntax or select the database in the SCHEMAS page.

USE AmazonDB;

CREATE TABLE Users(

user_id INT PRIMARY KEY AUTO_INCREMENT,

user_name VARCHAR(100) NOT NULL,

email VARCHAR(150) UNIQUE NOT NULL,

registered_date DATE NOT NULL,

membership ENUM('Basic','Prime') DEFAULT 'Basic'

);

DESCRIBE Users;

CREATE TABLE Products(

product_id INT PRIMARY KEY AUTO_INCREMENT,

product_name VARCHAR(200) NOT NULL,

price DECIMAL(10,2) NOT NULL,

category VARCHAR(100) NOT NULL,

stock INT NOT NULL

);

CREATE TABLE Orders(

order_id INT PRIMARY KEY AUTO_INCREMENT,

user_id INT,

```
order_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP NOT NULL,  
total_amount DECIMAL(10,2) NOT NULL,  
FOREIGN KEY (user_id) REFERENCES Users(user_id)  
);
```

```
CREATE TABLE Order_details(  
order_details_id INT PRIMARY KEY AUTO_INCREMENT,  
order_id INT,  
product_id INT,  
quantity INT NOT NULL CHECK(quantity>0),  
unit_price DECIMAL(10,2) NOT NULL CHECK(unit_price>0),  
FOREIGN KEY (order_id) REFERENCES Orders(order_id) ON DELETE CASCADE,  
FOREIGN KEY (product_id) REFERENCES Products(product_id)  
);
```

```
-- DATA MANIPULATION LANGUAGE  
-- Creating records for each table
```

```
INSERT INTO Users (user_name, email, registered_date, membership) VALUES  
('Alice Johnson', 'alice.j@example.com', '2024-01-15', 'Prime'),  
('Bob Smith', 'bob.s@example.com', '2024-02-01', 'Basic'),  
('Charlie Brown', 'charlie.b@example.com', '2024-03-10', 'Prime'),  
('Daisy Ridley', 'daisy.r@example.com', '2024-04-12', 'Basic');
```

```
select * from Users;
```

```
INSERT INTO Products (product_name, price, category, stock) VALUES  
('Echo Dot', 49.99, 'Electronics', 120),
```

```
('Kindle Paperwhite', 129.99, 'Books', 50),  
('Fire Stick', 39.99, 'Electronics', 80),  
('Yoga Mat', 19.99, 'Fitness', 200),  
('Wireless Mouse', 24.99, 'Electronics', 150);
```

-- to remove the unit_price column from Order_details table

```
ALTER TABLE Order_details  
DROP COLUMN unit_price;
```

```
INSERT INTO Orders (user_id, order_date, total_amount) VALUES  
(1, '2024-05-01', 79.98),  
(2, '2024-05-03', 129.99),  
(1, '2024-05-04', 49.99),  
(3, '2024-05-05', 24.99);
```

```
INSERT INTO Order_Details (order_id, product_id, quantity) VALUES  
(1, 1, 2),  
(2, 2, 1),  
(3, 1, 1),  
(4, 5, 1);
```

-- to rename the table name Order_details to "OrderDetails"

```
RENAME TABLE Order_details TO OrderDetails;
```