

```

-- Data Definition Language
-- 1) Creating a Database
-- Create a database named 'amazon_practice_db'
CREATE DATABASE amazon_practice_db;

-- Switch to the new database
USE amazon_practice_db;

SHOW DATABASES;
-- 2) Creating Tables
-- Create a table named 'Users'
CREATE TABLE Users (
    user_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    email VARCHAR(150) UNIQUE NOT NULL,
    registered_date DATE NOT NULL,
    membership ENUM('Basic', 'Prime') DEFAULT 'Basic'
);

SELECT * from Users;

-- 3) Altering Tables
-- Add a new column 'phone_number' to the 'amazon_practice_db' table
ALTER TABLE Users ADD phone_number VARCHAR(15);

SHOW TABLES FROM amazon_practice_db;

-- Modify the 'last_name' column to be NOT NULL
ALTER TABLE Users MODIFY email VARCHAR(100) NOT NULL;

USE amazon_practice_db;
ALTER TABLE Users RENAME TO User_db;

-- 4) Dropping Tables
-- Drop the table 'User_db'
DROP TABLE User_db;

CREATE TABLE Products (
    product_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(200) NOT NULL,
    price DECIMAL(10, 2) NOT NULL,
    category VARCHAR(100) NOT NULL,
    stock INT NOT NULL
);

select * from Products

CREATE TABLE Users (
    user_id INT AUTO_INCREMENT PRIMARY KEY,
    name VARCHAR(100) NOT NULL,
    email VARCHAR(150) UNIQUE NOT NULL,
    registered_date DATE NOT NULL,
    membership ENUM('Basic', 'Prime') DEFAULT 'Basic'
);

```

```

CREATE TABLE Orders (
    order_id INT AUTO_INCREMENT PRIMARY KEY,
    user_id INT NOT NULL,
    order_date DATE NOT NULL,
    total_amount DECIMAL(10, 2) NOT NULL,
    FOREIGN KEY (user_id) REFERENCES Users(user_id)
);

CREATE TABLE OrderDetails (
    order_details_id INT AUTO_INCREMENT PRIMARY KEY,
    order_id INT NOT NULL,
    product_id INT NOT NULL,
    quantity INT NOT NULL,
    FOREIGN KEY (order_id) REFERENCES Orders(order_id),
    FOREIGN KEY (product_id) REFERENCES Products(product_id)
);

CREATE TABLE UserAddress (
    address_id INT AUTO_INCREMENT PRIMARY KEY,
    user_id INT,
    street VARCHAR(255),
    city VARCHAR(100),
    state VARCHAR(100),
    zip_code VARCHAR(20),
    FOREIGN KEY (user_id) REFERENCES Users(user_id)
);

select * from UserAddress

CREATE TABLE ProductRatings (
    rating_id INT AUTO_INCREMENT PRIMARY KEY,
    product_id INT,
    user_id INT,
    rating INT CHECK(rating BETWEEN 1 AND 5),
    review_text TEXT,
    FOREIGN KEY (product_id) REFERENCES Products(product_id),
    FOREIGN KEY (user_id) REFERENCES Users(user_id)
);

USE amazon_practice_db
select * from ProductRatings
select * from UserAddress
select * from OrderDetails
select * from Orders
select * from Users
select * from Products

```