**Assignment 1 : write an SQL query in ecommerce**

create database ecomerce;

use ecomerce;

CREATE TABLE Users (

user\_id INT PRIMARY KEY AUTO\_INCREMENT,

username VARCHAR(50) NOT NULL UNIQUE,

password VARCHAR(100) NOT NULL,

email VARCHAR(100) NOT NULL UNIQUE,

first\_name VARCHAR(50),

last\_name VARCHAR(50),

address VARCHAR(255),

phone VARCHAR(15),

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP

);

INSERT INTO Users (username, password, email, first\_name, last\_name, address, phone) VALUES

('john\_doe', 'password123', 'john@example.com', 'John', 'Doe', '123 Main St, Springfield', '555-1234'),

('jane\_smith', 'password456', 'jane@example.com', 'Jane', 'Smith', '456 Elm St, Shelbyville', '555-5678');

CREATE TABLE Products (

product\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(100) NOT NULL,

description TEXT,

price DECIMAL(10, 2) NOT NULL,

stock\_quantity INT NOT NULL,

category\_id INT,

created\_at TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

FOREIGN KEY (category\_id) REFERENCES Categories(category\_id)

);

INSERT INTO Products (name, description, price, stock\_quantity, category\_id) VALUES

('Smartphone', 'Latest model smartphone', 699.99, 50, 1),

('Laptop', 'High performance laptop', 999.99, 30, 1),

('T-shirt', 'Cotton t-shirt', 19.99, 100, 3);

CREATE TABLE Categories (

category\_id INT PRIMARY KEY AUTO\_INCREMENT,

name VARCHAR(50) NOT NULL UNIQUE,

description TEXT

);

INSERT INTO Categories (name, description) VALUES

('Electronics', 'Electronic devices and gadgets'),

('Books', 'Various kinds of books'),

('Clothing', 'Men and women clothing');

CREATE TABLE Orders (

order\_id INT PRIMARY KEY AUTO\_INCREMENT,

user\_id INT NOT NULL,

order\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

status ENUM('pending', 'shipped', 'delivered', 'canceled') DEFAULT 'pending',

total\_amount DECIMAL(10, 2) NOT NULL,

shipping\_address VARCHAR(255),

FOREIGN KEY (user\_id) REFERENCES Users(user\_id)

);

INSERT INTO Orders (user\_id, status, total\_amount, shipping\_address) VALUES

(1, 'pending', 719.98, '123 Main St, Springfield'),

(2, 'pending', 19.99, '456 Elm St, Shelbyville');

CREATE TABLE Order\_Items (

order\_item\_id INT PRIMARY KEY AUTO\_INCREMENT,

order\_id INT NOT NULL,

product\_id INT NOT NULL,

quantity INT NOT NULL,

price DECIMAL(10, 2) NOT NULL,

FOREIGN KEY (order\_id) REFERENCES Orders(order\_id),

FOREIGN KEY (product\_id) REFERENCES Products(product\_id)

);

INSERT INTO Order\_Items(order\_id, product\_id, quantity, price) VALUES

(1, 1, 1, 699.99),

(1, 2, 1, 19.99),

(2, 3, 1, 19.99);

CREATE TABLE Payments (

payment\_id INT PRIMARY KEY AUTO\_INCREMENT,

order\_id INT NOT NULL,

payment\_date TIMESTAMP DEFAULT CURRENT\_TIMESTAMP,

amount DECIMAL(10, 2) NOT NULL,

payment\_method ENUM('credit\_card', 'debit\_card', 'paypal', 'cash\_on\_delivery') NOT NULL,

FOREIGN KEY (order\_id) REFERENCES Orders(order\_id)

);

INSERT INTO Payments (order\_id, amount, payment\_method) VALUES

(1, 719.98, 'credit\_card'),

(2, 19.99, 'paypal');

select \* from Categories;

select \* from Users;

select\* from products;

select \* from Payments;

select \* from Order\_items;

select count(\*) from Orders where status = 'pending';

select \* from Payments where payment\_method in('credit\_card','paypal','debit\_card','cash\_on\_delivery');

select total\_amount from Orders where Orders.user\_id = Users.user\_id;

Alter table Users add column date\_of\_birth date;

select \* from Order\_items join products on products.product\_id = Order\_items.product\_id;

select \* from Orders join Users on Users.user\_id = Orders.user\_id;

select avg(price) from Order\_items;

select count(order\_id ) from orders where status = 'pending';

alter table products

drop column description;

alter table Users modify phone varchar(20);

ALTER TABLE Orders

ADD CONSTRAINT user\_id

FOREIGN KEY (user\_id)REFERENCES Users (user\_id);

alter table Categories

Rename column name to category\_name;

update products set price = 749.99 where product\_id = 1;

update Orders set status = 'shipped'

where order\_id = 1;

update products set stock\_quantity =10

where product\_id =3;

update Users

set email = 'pavan@gmail.com'

where user\_id = 2;

update Orders

set shipping\_address = 'india'

where order\_id=2;