**CASE STUDY**

**Ecommerce Application**

*Create and insert data into the following tables in MySQL Schema for the Ecommerce application.*

*SQL Tables:*

*1. customers table:*

*• customer\_id (Primary Key)*

*• name*

*• email*

*• password*

*2. products table:*

*• product\_id (Primary Key)*

*• name*

*• price*

*• description*

*• stockQuantity*

*3. cart table:*

*• cart\_id (Primary Key)*

*• customer\_id (Foreign Key)*

*• product\_id (Foreign Key)*

*• quantity*

*4. orders table:*

*• order\_id (Primary Key)*

*• customer\_id (Foreign Key)*

*• order\_date*

*• total\_price*

*• shipping\_address*

*5. order\_items table (to store order details):*

*• order\_item\_id (Primary Key)*

*• order\_id (Foreign Key)*

*• product\_id (Foreign Key)*

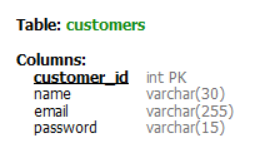
*• quantity*

**SOURCE CODE:**

create table customers (

customer\_id int primary key, name varchar(30),

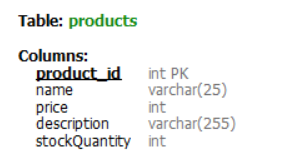
email varchar(255),password varchar(15));



create table products (

product\_id int primary key, name varchar(25),

price int, description varchar(255), stockQuantity int);

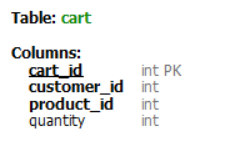


create table cart (

cart\_id int primary key, customer\_id int , product\_id int, quantity int,

foreign key (customer\_id) references customers(customer\_id),

foreign key (product\_id) references products(product\_id));



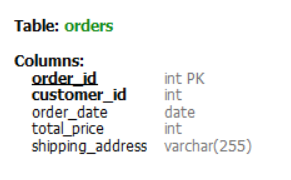
create table orders (

order\_id int primary key, customer\_id int,

order\_date date, total\_price int,

shipping\_address varchar(255),

foreign key (customer\_id) references customers(customer\_id));



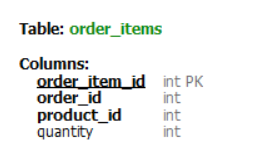
create table order\_items (

order\_item\_id int primary key, order\_id int,

product\_id int, quantity int,

foreign key (order\_id) references orders(order\_id),

foreign key (product\_id) references products(product\_id));



*-- Customers data*

insert into customers values (1, 'krishna', 'krishna@gmail.com', 'securepass1');

insert into customers values (2, 'aruna', 'aruna@gmail.com', 'mypassword123');

insert into customers values (3, 'devi', 'devi@gmail.com', 'strongpass456');

insert into customers values (4, 'rajesh', 'rajesh@gmail.com', 'password789');

insert into customers values (5, 'jaya', 'jaya@gmail.com', 'securepass2');

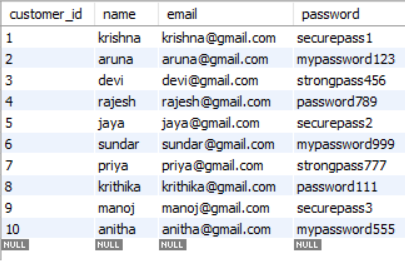
insert into customers values (6, 'sundar', 'sundar@gmail.com', 'mypassword999');

insert into customers values (7, 'priya', 'priya@gmail.com', 'strongpass777');

insert into customers values (8, 'krithika', 'krithika@gmail.com', 'password111');

insert into customers values (9, 'manoj', 'manoj@gmail.com', 'securepass3');

insert into customers values (10, 'anitha', 'anitha@gmail.com', 'mypassword555');



*-- Products data*

insert into products values (1, 'Smartphone', 499, 'High-end mobile device', 100);

insert into products values (2, 'Headphones', 79, 'Wireless noise-canceling headphones', 50);

insert into products values (3, 'Smartwatch', 199, 'Fitness tracking smartwatch', 30);

insert into products values (4, 'Tablet', 299, '10-inch touchscreen tablet', 40);

insert into products values (5, 'Camera', 599, 'Digital SLR camera', 20);

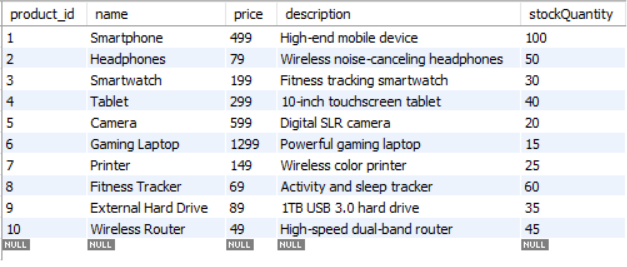
insert into products values (6, 'Gaming Laptop', 1299, 'Powerful gaming laptop', 15);

insert into products values (7, 'Printer', 149, 'Wireless color printer', 25);

insert into products values (8, 'Fitness Tracker', 69, 'Activity and sleep tracker', 60);

insert into products values (9, 'External Hard Drive', 89, '1TB USB 3.0 hard drive', 35);

insert into products values (10, 'Wireless Router', 49, 'High-speed dual-band router', 45);



*-- Cart data*

insert into cart values (1, 1, 2, 3);

insert into cart values (2, 3, 4, 1);

insert into cart values (3, 2, 1, 2);

insert into cart values (4, 1, 3, 1);

insert into cart values (5, 2, 2, 4);

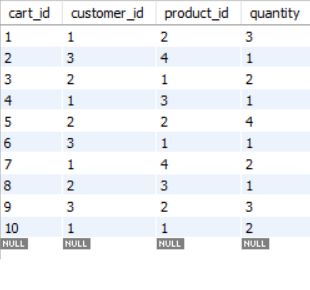
insert into cart values (6, 3, 1, 1);

insert into cart values (7, 1, 4, 2);

insert into cart values (8, 2, 3, 1);

insert into cart values (9, 3, 2, 3);

insert into cart values (10, 1, 1, 2);



-- Orders data

insert into orders values (1, 1, '2023-11-30', 1499, 'Chennai, Tamil Nadu');

insert into orders values (2, 2, '2023-11-29', 899, 'Coimbatore, Tamil Nadu');

insert into orders values (3, 3, '2023-11-28', 249, 'Madurai, Tamil Nadu');

insert into orders values (4, 4, '2023-11-27', 799, 'Trichy, Tamil Nadu');

insert into orders values (5, 5, '2023-11-26', 349, 'Salem, Tamil Nadu');

insert into orders values (6, 6, '2023-11-25', 1599, 'Erode, Tamil Nadu');

insert into orders values (7, 7, '2023-11-24', 599, 'Tirunelveli, Tamil Nadu');

insert into orders values (8, 8, '2023-11-23', 999, 'Vellore, Tamil Nadu');

insert into orders values (9, 9, '2023-11-22', 449, 'Kanchipuram, Tamil Nadu');

insert into orders values (10, 10, '2023-11-21', 749, 'Nagercoil, Tamil Nadu');



-- Order\_Items data

insert into order\_items values (1, 1, 1, 2);

insert into order\_items values (2, 1, 2, 1);

insert into order\_items values (3, 2, 3, 3);

insert into order\_items values (4, 2, 1, 1);

insert into order\_items values (5, 3, 2, 2);

insert into order\_items values (6, 3, 3, 1);

insert into order\_items values (7, 4, 1, 1);

insert into order\_items values (8, 4, 2, 2);

insert into order\_items values (9, 5, 3, 1);

insert into order\_items values (10, 5, 1, 3);

