SQL FINAL CASE STUDY - *E COMMERCE*
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Create following tables in MySQL Schema for the Ecommerce application.
SQL Tables:
1. customers table: **• customer_id (Primary Key)**
                 • name
                 • email
                 • password

Query-
```
CREATE TABLE customers(
        Customer_id INT PRIMARY KEY,
        Customer_Name VARCHAR(20),
        Email VARCHAR(20),
        C_Password VARCHAR(10)
);
```
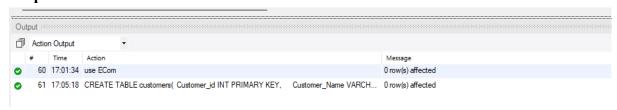**Output**

#	Time	Action	Message
✔ 60	17:01:34	use ECom	0 row(s) affected
✔ 61	17:05:18	CREATE TABLE customers(Customer_id INT PRIMARY KEY, Customer_Name VARCH...	0 row(s) affected

– inserting records into customers table
Query-
```
INSERT INTO customers (Customer_id,Customer_Name,Email,C_Password) VALUES
   (1, 'Raji', 'raji852@gmail.com', 'Raji@123'),
   (2, 'Sai', 'saikatta@gmail.com', 'Sai184$'),
   (3, 'Mahesh', 'mahesh2k5@gmail.com', '##S2mk1l'),
   (4, 'Kusuma', 'kusuma198@gmail.com', 'kusumaK*'),
   (5, 'Srinivas', 'srinuk72@gmail.com', 's&S246*'),
   (6, 'Bobby', 'bobby808@gmail.com', 'Bobby12#'),
   (7, 'Ravi', 'ravi852@gmail.com', 'Ravi@123'),
   (8, 'Mohan', 'mohana343@gmail.com', 'Harry46%'),
   (9, 'Prasanna', 'prasanna70@gmail.com', 'Pk468@!'),
   (10, 'Krish', 'krish603@gmail.com', 'kri#@123');
```
Output

#	Time	Action	Message
✔ 72	17:29:34	CREATE TABLE customers(Customer_id INT PRIMARY KEY, Customer_Name VARCH...	0 row(s) affected
✔ 73	17:29:45	INSERT INTO customers (Customer_id,Customer_Name,Email,C_Password) VALUES (1, 'Ra...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0

2. products table: • **product_id (Primary Key)**

                                       • **name**

                                       • **price**

                                       • **description**

                                       • **stockQuantity**

Query-

```
CREATE TABLE Products (
    product_id INT PRIMARY KEY,
    product_name VARCHAR(255),
    price INT,
    pro_description TEXT,
    stockQuantity INT
);
```
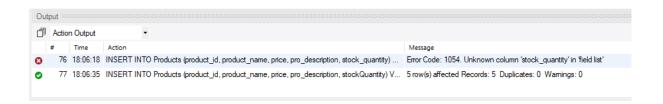
Output

#	Time	Action	Message
✅ 73	17:29:45	INSERT INTO customers (Customer_id,Customer_Name,Email,C_Password) VALUES (1, 'Ra...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✅ 74	18:03:50	CREATE TABLE Products (product_id INT PRIMARY KEY, product_name VARCHAR(...	0 row(s) affected

– inserting records into products table

Query-

```
INSERT INTO Products (product_id, product_name, price, pro_description, stockQuantity)
VALUES
    (1, 'Laptop', 89999, 'Powerful laptop with high-performance specifications.', 20),
    (2, 'Smartphone', 29999, 'Feature-packed smartphone with a large display.', 50),
    (3, 'Running Shoes', 899, 'Comfortable running shoes with advanced cushioning.', 100),
    (4, 'Digital Camera', 49999, 'High-resolution digital camera for photography enthusiasts.', 15),
    (5, 'Office Chair', 4499, 'Ergonomic office chair for long hours of comfortable work.', 30);
```

Output

#	Time	Action	Message
❌ 76	18:06:18	INSERT INTO Products (product_id, product_name, price, pro_description, stock_quantity) ...	Error Code: 1054. Unknown column 'stock_quantity' in 'field list'
✅ 77	18:06:35	INSERT INTO Products (product_id, product_name, price, pro_description, stockQuantity) V...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0

3. cart table: • **cart_id (Primary Key)**
   • **customer_id (Foreign Key)**
   • **product_id (Foreign Key)**
   • **quantity**

Query-

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)
);

Output

#	Time	Action	Message
✓	77 18:06:35	INSERT INTO Products (product_id, product_name, price, pro_description, stockQuantity) V...	5 row(s) affected Records: 5 Duplicates: 0 Warnings: 0
✓	78 18:30:37	CREATE TABLE cart (cart_id INT PRIMARY KEY, customer_id INT, product_id INT...	0 row(s) affected

-- Insert into cart table
INSERT INTO cart (cart_id, customer_id, product_id, quantity)
VALUES
    (1, 1, 2, 2),
    (2, 2, 3, 1),
    (3, 3, 1, 3),
    (4, 4, 5, 2),
    (5, 5, 4, 1),
    (6, 6, 2, 2),
    (7, 7, 3, 1),
    (8, 8, 1, 3),
    (9, 9, 5, 2),
    (10,10, 4, 1);

Output

#	Time	Action	Message
✓	78 18:30:37	CREATE TABLE cart (cart_id INT PRIMARY KEY, customer_id INT, product_id INT...	0 row(s) affected
✓	79 18:31:20	INSERT INTO cart (cart_id, customer_id, product_id, quantity) VALUES (1, 1, 2, 2), (2, ...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0

4. orders table: • **order_id (Primary Key)**
                          • **customer_id (Foreign Key)**
                          • **order_date**
                          • **total_price**
                          • **shipping_address**

Query-

CREATE TABLE orders (
   order_id INT PRIMARY KEY,
   customer_id INT,
   order_date DATE,
   total_price DECIMAL(10, 2),
   shipping_address VARCHAR(255),
   FOREIGN KEY (customer_id) REFERENCES customers(customer_id)
);

Output

-- Insert into orders table
INSERT INTO orders (order_id, customer_id, order_date, total_price, shipping_address)
VALUES
   (1, 1, '2022-11-01', 149998, '123 Main St, Cityville'),
   (2, 2, '2022-11-02', 26997, '456 Oak St, Townsville'),
   (3, 3, '2022-11-03', 20997, '789 Pine St, Villagetown'),
   (4, 4, '2022-11-04', 29998, '101 Elm St, Boroughburg'),
   (5, 5, '2022-11-05', 79998, '202 Maple St, Hamletsville'),
   (6, 6, '2022-11-06', 59999, '303 Cedar St, Villagetown'),
   (7, 7, '2022-11-07', 89998, '404 Oak St, Cityville'),
   (8, 8, '2022-11-08', 44999, '505 Elm St, Boroughburg'),
   (9, 9, '2022-11-09', 19999, '606 Pine St, Hamletsville'),
   (10, 10, '2022-11-10', 34999, '707 Maple St, Townsville');

Output

5. order_items table (to store order details):
- **order_item_id (Primary Key)**
- **order_id (Foreign Key)**
- **product_id (Foreign Key)**
- **quantity**

Query-

```
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)
);
```

Output

#	Time	Action	Message
✓ 81	18:34:33	INSERT INTO orders (order_id, customer_id, order_date, total_price, shipping_address) VAL...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0
✓ 82	18:36:16	CREATE TABLE order_items (order_item_id INT PRIMARY KEY, order_id INT, prod...	0 row(s) affected

```
-- Insert into order_items table
INSERT INTO order_items (order_item_id, order_id, product_id, quantity)
VALUES
    (1, 1, 2, 2),
    (2, 2, 3, 1),
    (3, 3, 1, 3),
    (4, 4, 5, 2),
    (5, 5, 4, 1),
    (6, 6, 3, 2),
    (7, 7, 1, 1),
    (8, 8, 4, 3),
    (9, 9, 2, 2),
    (10, 10, 5, 1);
```

Output

#	Time	Action	Message
✓ 82	18:36:16	CREATE TABLE order_items (order_item_id INT PRIMARY KEY, order_id INT, prod...	0 row(s) affected
✓ 83	18:37:12	INSERT INTO order_items (order_item_id, order_id, product_id, quantity) VALUES (1, 1, 2,...	10 row(s) affected Records: 10 Duplicates: 0 Warnings: 0