

## Complete SQL Scripts

```
CREATE DATABASE RETAIL_SALES;
```

```
USE RETAIL SALES;
```

### Tables Creation:

-----

```
Create table Customers(  
CUSTOMER_ID VARCHAR(25) PRIMARY KEY,  
NAME VARCHAR(30),  
CITY VARCHAR(50),  
EMAIL VARCHAR(50)  
);
```

```
CREATE TABLE Products(  
PRODUCT_ID VARCHAR(25) PRIMARY KEY,  
PRODUCTNAME VARCHAR(50),  
CATEGORY VARCHAR(50),  
PRICE DECIMAL(10,2)  
);
```

```
CREATE TABLE ORDERS(  
ORDER_ID VARCHAR(25) PRIMARY KEY,  
CUSTOMER_ID VARCHAR(25),  
ORDER_DATE DATE,  
FOREIGN KEY (CUSTOMER_ID) REFERENCES CUSTOMERS(CUSTOMER_ID)  
);
```

```
CREATE TABLE OrderedItems(  
  ITEM_ID VARCHAR(25) PRIMARY KEY,  
  ORDER_ID VARCHAR(25),  
  PRODUCT_ID VARCHAR(25),  
  QUANTITY INT,  
  FOREIGN KEY(ORDER_ID) REFERENCES ORDERS(ORDER_ID),  
  FOREIGN KEY (PRODUCT_ID) REFERENCES PRODUCTS(PRODUCT_ID)  
);
```

### Data Insertion:

INSERT INTO CUSTOMERS (CUSTOMER\_ID, NAME, CITY, EMAIL)VALUES

(1,'Chinna','Kurnool','chinna31@gmail.com'),  
(2,'Leela','Vizag','leela43@gmail.com'),  
(3,'Chandu','Hyderabad','chandu12@gmail.com'),  
(4,'Mahendra','Bangalore','mahi3@gmail.com'),  
(5,'Pavan','Kurnool','pavan13@Gmail.com'),  
(6,'Shiva','Chennai','shiva45@gmail.com'),  
(7,'Karan','Hyderabad','karan22@gmail.com'),  
(8,'Raj','Pune','raj\_22@gmail.com'),  
(9,'Alok','Bangalore','alok22@gmail.com'),  
(10,'Karthik','Bangalore','karthiksinha@gmail.com');

insert into products (product\_id,productname,category,price) values

('P101','Laptop','Electronics',50000),  
( 'P102','Headphones','Electronics',2000),  
( 'P103','Sofa','Furniture',1500),  
( 'P104','MacBook','Electronics',150000),  
( 'P105','TeddyBear','DecorItems',1200),  
( 'P106','Mouse','Electronics',750),  
( 'P107','ComputerDesk','Furniture',4500),  
( 'P108','Fan','Appliances',2300),  
( 'P109','PenSet','Stationary',130),  
( 'P110','Monitor','Electronics',14500);

```
insert into orders (order_id, customer_id,order_date) values
```

```
('O101',1,'2024-12-10'),
```

```
('O102',2,'2025-01-16'),
```

```
('O103',3,'2025-01-12'),
```

```
('O104',2,'2025-03-04'),
```

```
('O105',6,'2025-03-09'),
```

```
('O106',9,'2025-03-16'),
```

```
('O107',4,'2025-03-27'),
```

```
('O108',7,'2025-04-02');
```

```
insert into OrderedItems(item_id,order_id,product_id,quantity) values
```

```
('I1','O101','P101',1),
```

```
('I2','O101','P104',2),
```

```
('I3','O102','P103',3),
```

```
('I4','O103','P101',1),
```

```
('I5','O102','P105',6),
```

```
('I6','O101','P102',2),
```

```
('I7','O106','P107',4),
```

```
('I8','O108','P109',1),
```

```
('I9','O108','P102',1),
```

```
('I10','O104','P105',2);
```

### SQL Queries using SELECT statements:

#TOTAL SALES BY CITY

```
SELECT CITY, SUM(PRICE*QUANTITY)"TOTAL_SALES"  
FROM CUSTOMERS C INNER JOIN ORDERS O ON O.CUSTOMER_ID=C.CUSTOMER_ID  
INNER JOIN ORDEREDITEMS OI ON O.ORDER_ID=OI.ORDER_ID  
INNER JOIN PRODUCTS P ON OI.PRODUCT_ID=P.PRODUCT_ID  
GROUP BY CITY;
```

#TOP\_SELLING PRODUCT

```
SELECT PRODUCTNAME, SUM(QUANTITY) AS "TOTAL_QTY_SOLD"  
FROM ORDEREDITEMS OI INNER JOIN PRODUCTS P ON OI.PRODUCT_ID=P.PRODUCT_ID  
GROUP BY PRODUCTNAME  
ORDER BY TOTAL_QTY_SOLD DESC  
LIMIT 1;
```

#MONTHLY\_SALES\_SUMMARY

```
SELECT date_format(ORDER_DATE,'%Y-%M') AS "MONTH", SUM(PRICE*QUANTITY) AS  
"MONTHLY_SALES"  
FROM ORDERS O INNER JOIN ORDEREDITEMS OI ON O.ORDER_ID=OI.ORDER_ID  
INNER JOIN PRODUCTS P ON OI.PRODUCT_ID=P.PRODUCT_ID  
GROUP BY MONTH  
ORDER BY MONTH;
```

#CUSTOMER\_ORDERED\_COUNT

```
SELECT NAME, COUNT(ORDER_ID) AS "TOTAL_ORDERS"  
FROM CUSTOMERS C INNER JOIN ORDERS O ON C.CUSTOMER_ID=O.CUSTOMER_ID  
GROUP BY NAME;
```