Q1. **SELECT clause with WHERE, AND, DISTINCT, Wild Card (LIKE)**

**Ans –**

1. select employeenumber,firstname,lastname from employees where jobtitle = 'Sales Rep' and reportsto = 1102;
2. select distinct productline from products where productline like '%cars%';

**Q2. CASE STATEMENTS for Segmentation**

**Ans –**

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Q3. **Q3. Group By with Aggregation functions and Having clause, Date and Time functions**

Ans-

1. select productcode,sum(quantityordered) as total\_ordered from orderdetails group by productcode order by total\_ordered desc;
2. select monthname(paymentdate) as payment\_month,count(customerNumber) as num\_payments from payments group by payment\_month having num\_payments > 20 order by num\_payments desc;

**Q4. CONSTRAINTS: Primary, key, foreign key, Unique, check, not null, default**

**a.** **create table customers(**

**customer\_id INTEGER PRIMARY KEY AUTO\_INCREMENT,**

**first\_name VARCHAR(50) NOT NULL,**

**last\_name VARCHAR(50) NOT NULL,**

**email VARCHAR(255) UNIQUE,**

**phone\_number VARCHAR(20));**

**b.** **create table orders(**

**order\_id INTEGER PRIMARY KEY AUTO\_INCREMENT,**

**customer\_id integer,**

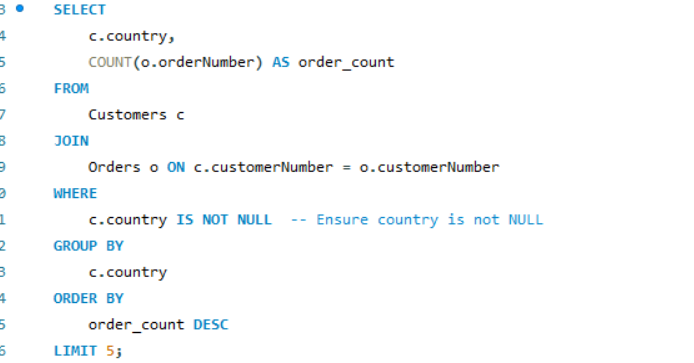
**FOREIGN KEY(customer\_id) references customers(customer\_id),**

**order\_date Date,**

**Total\_Amount DECIMAL(10,2) CHECK (Total\_Amount > 0));**

**Q5. JOINS**

**a.** List the top 5 countries (by order count) that Classic Models ships to. (**Use the Customers and Orders tables**)

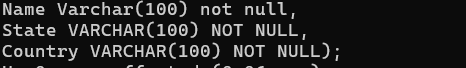
**Ans – **

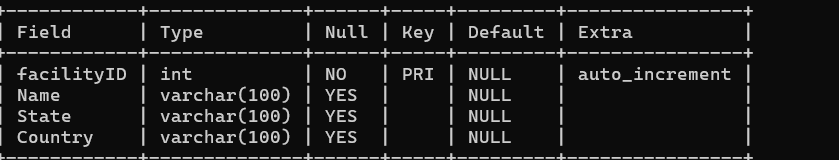
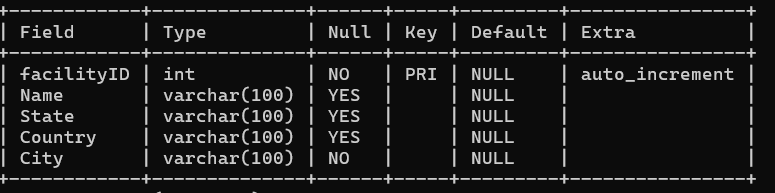
**Q6. SELF JOIN**

**Ans- select mng.fullname as managername,emp.fullname as empname from project as mng join project as emp on mng.employeeid=emp.managerid;**

**Q7. DDL Commands: Create, Alter, Rename**

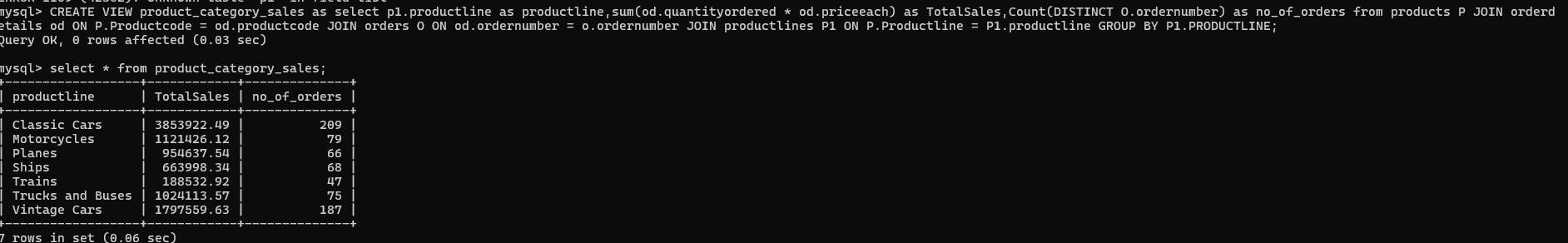
1. 



1. 
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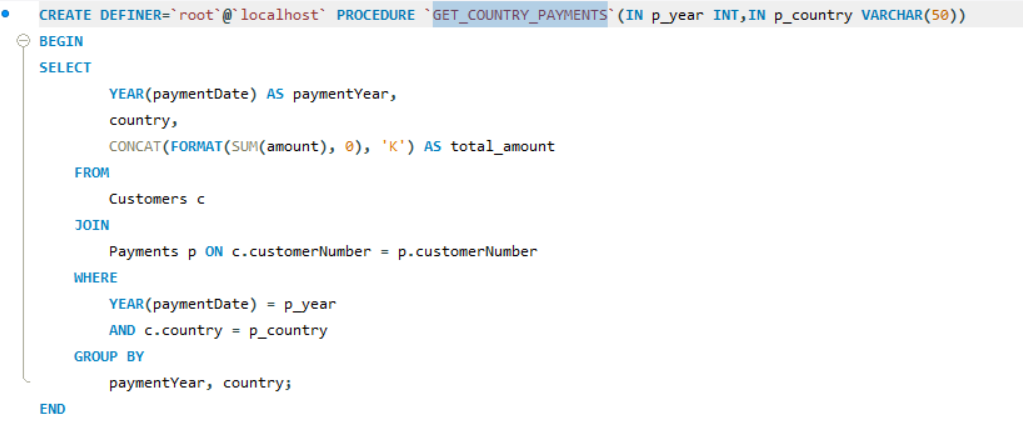
Q8

Ans-



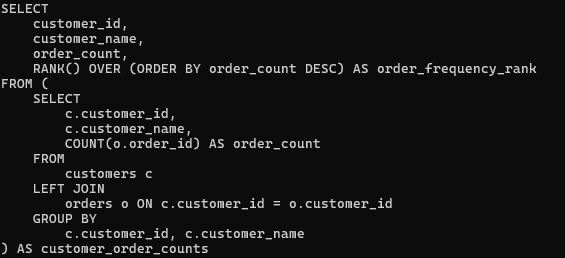
Q9

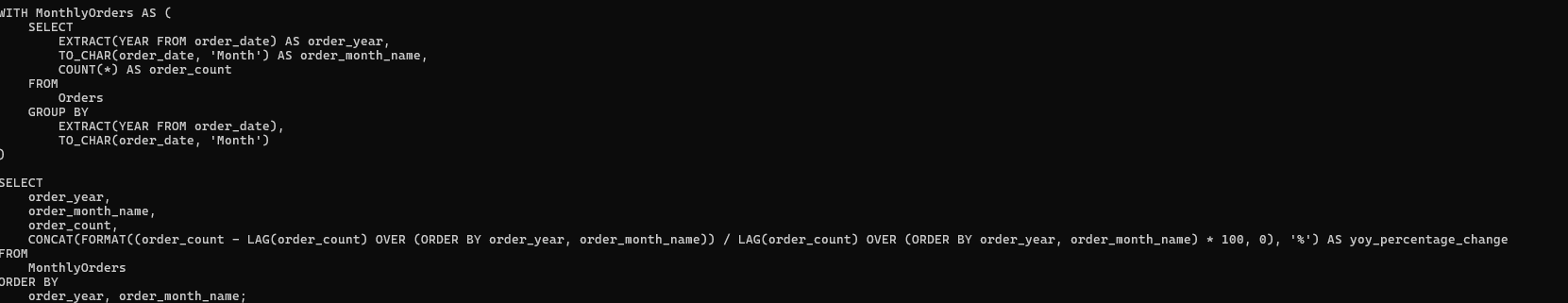
Ans-



Q10

Ans-





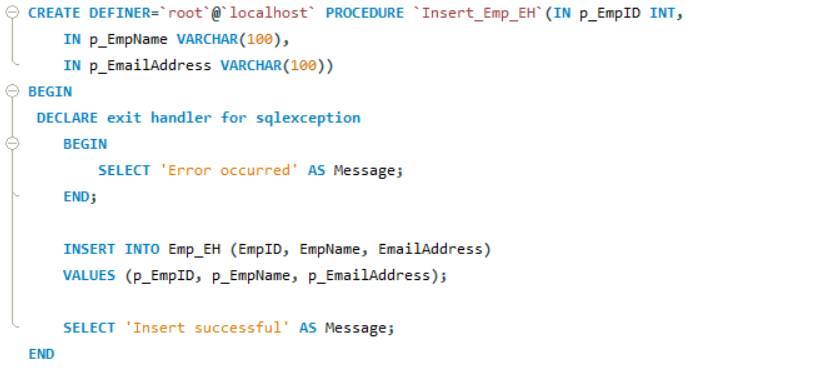
Q11

ANS-



Q12

ANS-



Q13

ANS-

