```
Database Management System (Lab Exam)
        SET-B
1.
create database exam;
use exam:
create table Salesman(
  Sid int PRIMARY KEY,
  name varchar(20) not null,
  scity varchar(20),
  commission int,
  gender varchar(10)
  );
  create table Customer(
    Cid int primary key,
    Name varchar(20) not null,
    CCity varchar(20),
    grade varchar(5),
    gender varchar(20)
    );
  CREATE table Orders(
    Ono int PRIMARY KEY,
    Purchase Amount int,
    Order_date date,
    Sid int,
    Cid int,
    FOREIGN key(Sid) REFERENCES Salesman(Sid),
    Foreign key(Cid) REFERENCES Customer(Cid)
    );
insert into Salesman(Sid,name,scity,Commission,Gender)
    values
    (1,'Abishek','Argha',1000,'Male'),
    (2,'Abishek1','Argha1',2000,'Male'),
    (3,'Abishek2','Argha2',3000,'Male'),
    (4,'Abishek3','Argha3',4000,'Male'),
    (5,'Abishek4','Argha4',5000,'Male');
```

Name: Abishek Khadka

Roll No: 231303

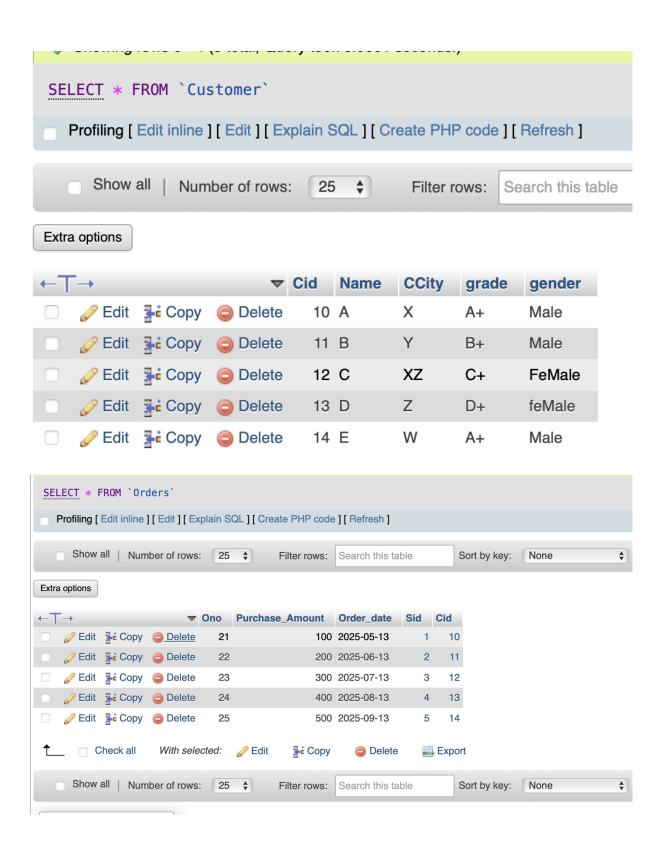
```
insert into Customer(Cid,Name,CCity,Grade,Gender)
    values
    (10,'A','X','A+','Male'),
    (11,'B','Y','B+','Male'),
    (12,'C','XZ','C+','FeMale'),
    (13,'D','Z','D+','feMale'),
    (14,'E','W','A+','Male');
insert into Orders(Ono,Purchase_Amount,Order_date,Cid,Sid)
values
(21,100,'2025-05-13',10,1),
(22,200,'2025-06-13',11,2),
(23,300,'2025-07-13',12,3),
(24,400,'2025-08-13',13,4),
(25,500,'2025-09-13',14,5);
 SELECT * FROM `Salesman`
    Profiling [ Edit inline ] [ Edit ] [ Explain SQL ] [ Create PHP code ] [ Refresh ]
       Show all
                 Number of rows:
                                  25 🛊
                                                                                Sort by key:
                                              Filter rows:
                                                          Search this table
 Extra options
                             ▼ Sid name
                                              scity
                                                     commission gender

    Ø Edit 
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                                   1 Abishek Argha
                                                              1000 Male

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                                   2 Abishek1 Argha1
                                                              2000 Male
                                   3 Abishek2 Argha2
                                                              3000 Male
     Delete
                                                              4000 Male
     4 Abishek3 Argha3
                      Delete
     5 Abishek4 Argha4
                                                              5000 Male
```



2. Select * from Salesman where name like 's—A%';



SELECT * FROM Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN
Customer c ON o.cid = c.cid WHERE s.commission = (SELECT MAX(commission) FROM Salesman) AND c.ccity = 'Chitwan' LIMIT 25;

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0013 seconds.)
SELECT * FROM Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN Customer c ON o.cid = c.cid WHERE s.commission = (SELECT MAX(commission) FROM Salesman) AND c.ccity = 'Chitwan' LIMIT 25;
Profiling [Edit Inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
ild name scity commission gender Ono Purchase_Amount Order_date Sid Cid Cid Name CCity grade gender Query results operations

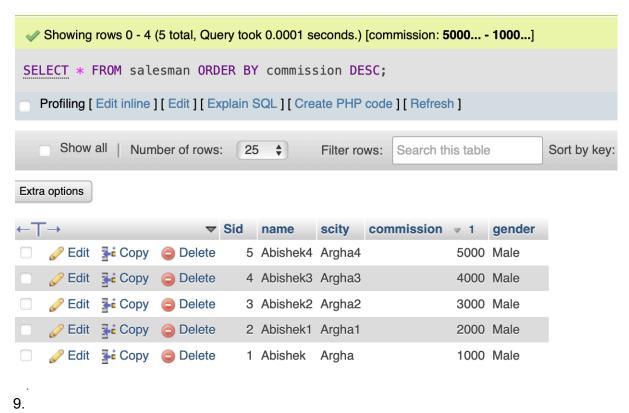
6. Select max(Purchase_amount) from Orders where Purchase_amount<(select max(Purchase_amount) from Orders);



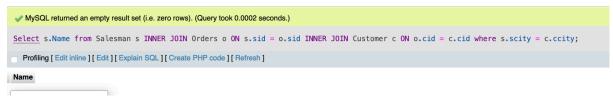
7. Select * from salesman order by commission desc limit 3;



SELECT * FROM salesman ORDER BY commission DESC;



Select Name from Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN Customer c ON o.cid = c.cid where s.scity = c.ccity;



There is noone having same city name:

10.
Select count(Ono) from Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN
Customer c ON o.cid = c.cid order by order_date;

Select count(Ono) from Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN Customer c ON o.cid = c.cid order by order_date;
Profiling [Edit Inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all Number of rows: 25 \$ Filter rows: Search this table
Extra options
count(Ono) 5

11.

Select avg(purchase_amount) from orders;



12.

```
SELECT * FROM Customer c INNER JOIN Orders o ON c.cid = o.cid WHERE c.CCity = 'Ktm' AND o.Purchase_amount > (SELECT AVG (Purchase_amount) FROM Orders);

* MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

SELECT * FROM Customer c INNER JOIN Orders o ON c.cid = o.cid WHERE c.CCity = 'Ktm' AND o.Purchase_amount > (SELECT AVG (Purchase_amount) FROM Orders);

Profiling [Edit Inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Cid Name CCity grade gender Ono Purchase_Amount Order_date Sid Cid
```

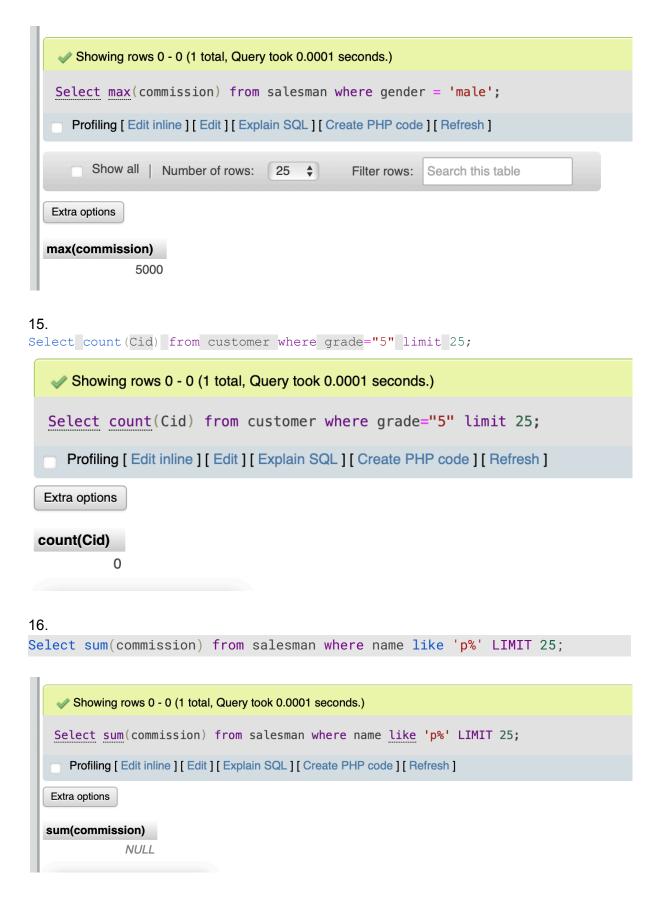
13.

Select name from Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN Customer c ON o.cid = c.cid where s.gender = c.gender;



14.

Select max(commission) from salesman where gender = "male";



NULL because there is noone in the relation with name starting with initial 'p';

17.

```
UPDATE Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN Customer c
ON o.cid = c.cid SET o.order_date = '2024-02-02', s.commission = (1.2 *
s.commission) WHERE s.name = 'Ram';

Show query box

# O rows affected. (Query took 0.0011 seconds.)

UPDATE Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN Customer c ON o.cid = c.cid SET o.order_date = '2024-02-02', s.commission = (1.2 * s.commission) WHERE s.name = 'Ram';

LEdit inline] [Edit] [Create PHP code]
```

0 rows affected bcz there noone named Ram;

18.

UPDATE Salesman s
INNER JOIN Orders o ON s.sid = o.sid
INNER JOIN Customer c ON o.cid = c.cid
SET s.name = 'Chitra', s.gender = 'Male'
WHERE s.commission > 20000
AND c.name = 'Ram'
AND c.grade = 'A'

19.

```
DELETE FROM Salesman WHERE name = 'Ram' AND commission > 20000 AND Scity = 'Ktm' AND sid IN ( SELECT s.sid FROM Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN Customer con o.cid = c.cid WHERE c.name = 'Sita' AND c.gender = 'Female');

Show query box

DELETE FROM Salesman WHERE name = 'Ram' AND commission > 20000 AND Scity = 'Ktm' AND sid IN ( SELECT s.sid FROM Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN Customer c ON o.cid = c.cid where c.name = 'Sita' AND c.gender = 'Female');

[Edit Inline] [Edit] [Create PHP code]
```

```
20.

DELETE FROM Salesman

WHERE sid IN (
    SELECT s.sid
    FROM Salesman s
    INNER JOIN Orders o ON s.sid = o.sid
    INNER JOIN Customer c ON o.cid = c.cid
    WHERE c.grade = 'A' AND c.name = 'Rita'
);
```

```
✓ 0 rows deleted. (Query took 0.0001 seconds.)

DELETE FROM Salesman WHERE sid IN ( SELECT s.sid FROM Salesman s INNER JOIN Orders o ON s.sid = o.sid INNER JOIN Customer c ON o.cid = c.cid WHERE c.grade = 'A' AND c.name = 'Rita'
);

[Edit inline] [Edit] [Create PHP code]
```