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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');
```

```

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`](#)

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☐ Show all | Number of rows: Filter rows: Sort by key:

Extra options

				Sid	name	scity	commission	gender
<input type="checkbox"/>				1	Abishek	Argha	1000	Male
<input type="checkbox"/>				2	Abishek1	Argha1	2000	Male
<input type="checkbox"/>				3	Abishek2	Argha2	3000	Male
<input type="checkbox"/>				4	Abishek3	Argha3	4000	Male
<input type="checkbox"/>				5	Abishek4	Argha4	5000	Male

```
SELECT * FROM `Customer`
```

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☐ Show all
 | Number of rows: 25
 Filter rows:

Extra options

					Cid	Name	CCity	grade	gender
<input type="checkbox"/>					10	A	X	A+	Male
<input type="checkbox"/>					11	B	Y	B+	Male
<input type="checkbox"/>					12	C	XZ	C+	FeMale
<input type="checkbox"/>					13	D	Z	D+	feMale
<input type="checkbox"/>					14	E	W	A+	Male

```
SELECT * FROM `Orders`
```

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 [[Explain SQL](#)]
 [[Create PHP code](#)]
 [[Refresh](#)]

☐ Show all
 | Number of rows: 25
 Filter rows:
 Sort by key: None

Extra options

					Ono	Purchase_Amount	Order_date	Sid	Cid
<input type="checkbox"/>					21	100	2025-05-13	1	10
<input type="checkbox"/>					22	200	2025-06-13	2	11
<input type="checkbox"/>					23	300	2025-07-13	3	12
<input type="checkbox"/>					24	400	2025-08-13	4	13
<input type="checkbox"/>					25	500	2025-09-13	5	14

☐ Check all
 With selected:
 Edit
 Copy
 Delete
 Export

☐ Show all
 | Number of rows: 25
 Filter rows:
 Sort by key: None

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

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0004 seconds.)

```
Select * from Salesman where name like "s%A%";
```

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Sid	name	scity	commission	gender
-----	------	-------	------------	--------

3.

```
SELECT MAX(Purchase_amount) FROM Salesman s INNER JOIN Orders o ON s.sid = o.sid WHERE o.Order_date = '2023-07-22' LIMIT 25;
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0007 seconds.)

```
SELECT MAX(Purchase_amount) FROM Salesman s INNER JOIN Orders o ON s.sid = o.sid WHERE o.Order_date = '2023-07-22' LIMIT 25;
```

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Extra options

MAX(Purchase_amount)
NULL

4.

```
Select count(Cid) from Customer where grade > (select avg(grade) from Customer);
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0014 seconds.)

```
Select count(Cid) from Customer where grade > (select avg(grade) from Customer);
```

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☐ Show all | Number of rows: Filter rows:

Extra options

count(Cid)
0

5.

```
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;
```

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sid	name	scity	commission	gender	Ono	Purchase_Amount	Order_date	Sid	Cid	Name	CCity	grade	gender
-----	------	-------	------------	--------	-----	-----------------	------------	-----	-----	------	-------	-------	--------

Query results operations

6.

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

✓ Showing rows 0 - 0 (1 total, Query took 0.0001 seconds.)

```
Select max(Purchase_amount) from Orders where Purchase_amount<(select max(Purchase_amount) from Orders);
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Extra options

max(Purchase_amount)
400

7.

Select * from salesman order by commission desc limit 3;

✓ Showing rows 0 - 2 (3 total, Query took 0.0002 seconds.) [commission: 5000... - 3000...]

```
Select * from salesman order by commission desc limit 3;
```

☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Extra options

	Sid	name	scity	commission	gender
<input type="checkbox"/> Edit Copy Delete	5	Abishek4	Argha4	5000	Male
<input type="checkbox"/> Edit Copy Delete	4	Abishek3	Argha3	4000	Male
<input type="checkbox"/> Edit Copy Delete	3	Abishek2	Argha2	3000	Male

8.

SELECT * FROM salesman ORDER BY commission DESC;

✓ Showing rows 0 - 4 (5 total, Query took 0.0001 seconds.) [commission: 5000... - 1000...]

```
SELECT * FROM salesman ORDER BY commission DESC;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: Filter rows: Sort by key:

Extra options

	Sid	name	scity	commission	gender
<input type="checkbox"/> Edit Copy Delete	5	Abishek4	Argha4	5000	Male
<input type="checkbox"/> Edit Copy Delete	4	Abishek3	Argha3	4000	Male
<input type="checkbox"/> Edit Copy Delete	3	Abishek2	Argha2	3000	Male
<input type="checkbox"/> Edit Copy Delete	2	Abishek1	Argha1	2000	Male
<input type="checkbox"/> Edit Copy Delete	1	Abishek	Argha	1000	Male

9.

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;

✓ MySQL returned an empty result set (i.e. zero rows). (Query took 0.0002 seconds.)

```
Select s.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;
```

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Name

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;

✓ Showing rows 0 - 0 (1 total, Query took 0.0003 seconds.)

```
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;
```

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☐ Show all | Number of rows: Filter rows:

Extra options

count(Ono)

5

11.

Select avg(purchase_amount) from orders ;

✓ Showing rows 0 - 0 (1 total, Query took 0.0006 seconds.)

```
Select avg(purchase_amount) from orders;
```

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☐ Show all | Number of rows: Filter rows:

Extra options

avg(purchase_amount)
300.0000

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;

✓ Showing rows 0 - 2 (3 total, Query took 0.0002 seconds.)

```
Select s.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;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

☐ Show all | Number of rows: Filter rows: Sort by key:

Extra options

name
Abishek
Abishek1
Abishek4

14.

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

✓ Showing rows 0 - 0 (1 total, Query took 0.0001 seconds.)

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

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☐ Show all | Number of rows: Filter rows:

Extra options

max(commission)
5000

15.

```
Select count(Cid) from customer where grade="5" limit 25;
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0001 seconds.)

```
Select count(Cid) from customer where grade="5" limit 25;
```

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Extra options

count(Cid)
0

16.

```
Select sum(commission) from salesman where name like 'p%' LIMIT 25;
```

✓ Showing rows 0 - 0 (1 total, Query took 0.0001 seconds.)

```
Select sum(commission) from salesman where name like 'p%' LIMIT 25;
```

☐ Profiling [[Edit inline](#)] [[Edit](#)] [[Explain SQL](#)] [[Create PHP code](#)] [[Refresh](#)]

Extra options

sum(commission)
NULL

NULL because there is no one 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

✓ 0 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';
```

[Edit 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'
```

✓ 0 rows affected. (Query took 0.0001 seconds.)

```
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';
```

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

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 c ON o.cid = c.cid WHERE c.name = 'Sita' AND
c.gender = 'Female' );
```

Show query box

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

```
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' );
```

[\[Edit inline \]](#) [\[Edit \]](#) [\[Create PHP code \]](#)