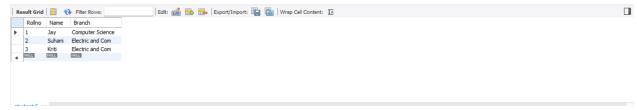
SQL Queries

- 1. Create Table Name: Student and Exam.
- → Student table:



→ Student table query: create database Pro1;

```
use Pro1;
```

create table student (Rollno int primary key auto_increment,

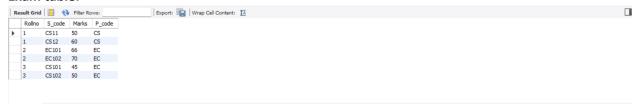
Name varchar (30) not null,

Branch varchar (30) not null);

insert into student (Name, Branch) values ('Jay', 'Computer Science'), ('Suhani', 'Electric and Com'), ('Kriti', 'Electric and Com');

select * from student;

→ Exam table:



→ Exam table query: create table exam (

Rollno int,

foreign key (Rollno) references student (Rollno),

S_code text not null,

Marks int not null,

P_code text null);

insert into exam (Rollno, S_code, Marks, P_code)

values(1,'CS11',50,'CS'),

(1,'CS12',60,'CS'),

(2,'EC101',66,'EC'),

(2,'EC102',70,'EC'),

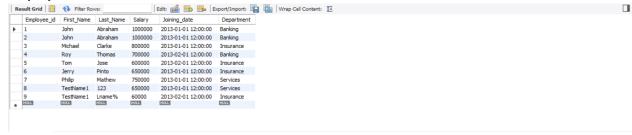
(3,'CS101',45,'EC'),

(3,'CS102',50,'EC');

select * from exam;

2. Create table given below: Employee and Incentive Table.

→ Employee table:



→ Employee table query: create database Pro2;

use Pro2;

create table Employee (

Employee id int primary key auto increment,

First_Name varchar(30) not null,

Last_Name varchar(30) not null,

Salary int not null,

Joining_date datetime not null,

Department varchar(30));

INSERT INTO Employee (First_Name, Last_Name, Salary, Joining_date, Department)

VALUES ('Michael', 'Clarke', 800000, '2013-01-01 12:00:00', 'Insurance'),

('Roy', 'Thomas', 700000, '2013-02-01 12:00:00', 'Banking'),

('Tom', 'Jose', 600000, '2013-02-01 12:00:00', 'Insurance'),

('Jerry', 'Pinto', 650000, '2013-01-01 12:00:00', 'Insurance'),

('Philip', 'Mathew', 750000, '2013-01-01 12:00:00', 'Services'),

('TestName1', '123', 650000, '2013-01-01 12:00:00', 'Services'),

('TestName1', 'Lname%', 60000, '2013-02-01 12:00:00', 'Insurance');

select * from Employee;

→ Incentive table:



→ Incentive table query: CREATE TABLE Incentive (

Employee_ref_id INT,

Incentive_date DATE NOT NULL,

Incentive amount INT NOT NULL);

insert into Incentive (Employee ref id, Incentive date, Incentive amount)

values (1,'2013-02-01',5000),

(2,'2013-02-01',3000),

(3,'2013-02-01',4000),

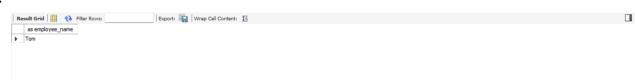
(1,'2013-01-01',4500),

(3,'2013-01-01',3500);

select * from Incentive;

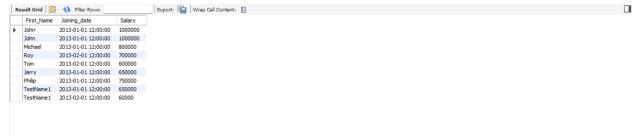
3. Get First_Name from employee table using Tom name "Employee Name".

→

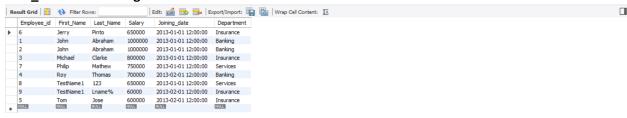


- → Query: select First_Name as employee_name from Employee where First_Name = 'Tom';
- 4. Get FIRST_NAME, Joining Date, and Salary from employee table.

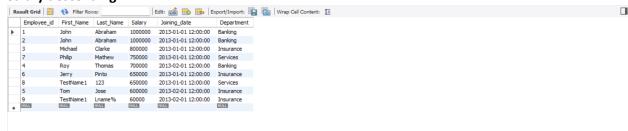
>



- → Query: select First Name, Joining date, Salary from Employee;
- 5. Get all employee details from the employee table order by First_Name Ascending and Salary descending?
- → First_Name Ascending:

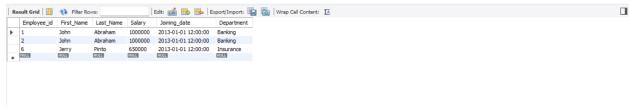


- → First_Name Ascending query: SELECT * FROM Employee ORDER BY First_Name ASC;
- **→** Salary descending:

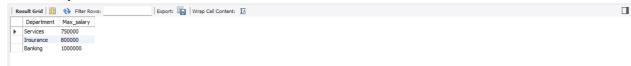


→ Salary descending query: select * from employee order by Salary DESC;

- 6. Get employee details from employee table whose first name contains 'J'.
- → first name contains 'J':



- → Query: select * from Employee where First_Name like 'j%';
- 7. &
- 8. Get department wise maximum salary from employee table order by salary ascending?
- → Max salary:



→ Query: select Department, max(Salary) as Max_salary from employee group by Department order by Max_salary asc;

9. Select first_name, incentive amount from employee and incentives table forthose employees who have incentives and incentive amount greater than 3000.

→



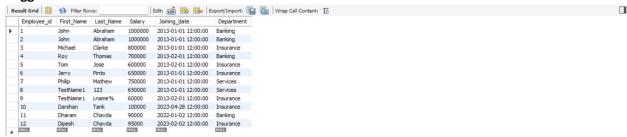
→ Query: SELECT e.First Name, i.Incentive amount

FROM Employee e

JOIN Incentive i ON e.Employee_id = i.Employee_ref_id

WHERE i.Incentive amount > 3000;

- 10. Create After Insert trigger on Employee table which insert records in view table.
- → Trigger:



→ Query: create trigger demotable

after insert

on employee for each row

begin

INSERT INTO Employee (First_Name, Last_Name, Salary, Joining_date, Department, record) VALUES (NEW.First_Name, NEW.Last_Name, NEW.Salary, NEW.Joining_date, NEW.Department)

```
end//
delimiter;
select * from employee;
```

11. &

12. Create table given below: Salesperson and Customer.

→ Salesperson table:



→ Salesperson table query: create database Pro3;

use Pro3;

create table Salesperson (
SNo int primary key,
SNAME varchar(30) not null,
CITY varchar(30) not null,
COMM float not null);

INSERT INTO Salesperson (SNo, SNAME, CITY, COMM) VALUES (1001, 'PEEL', 'LONDON', .12), (1002, 'SERRES', 'SAN JOSE', .13), (1004, 'MOTIKA', 'LONDON', .11), (1007, 'RAFKIN', 'BARCELONA', .15), (1003, 'AXELROD', 'NEW YORK', .1);

select * from Salesperson;

→ CUSTOMER TABLE:



→ CUSTOMER TABLE QUERY: CREATE TABLE CUSTOMER (

COMM int primary key auto_increment, CNAME varchar(30) NOT NULL, CITY varchar(30) NOT NULL, RATING INT, SNo int ,

foreign key (SNo) references Salesperson (SNo));

insert into CUSTOMER (COMM,CNAME,CITY,RATING,SNo) values (201, 'Hoffman','London',100 , 1001), (202,'Giovanne', 'Roe', 200, 1003), (203, 'Liu', 'san jose', 300, 1002),

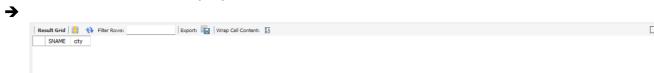
```
(204, 'grass', 'Barselona', 100, 1002),
(206, 'Clemens', 'London', 300, 1007),
(207, 'Pereira', 'Roe', 100, 1004);
select * from CUSTOMER;
```

13. All orders for more than \$1000.

→

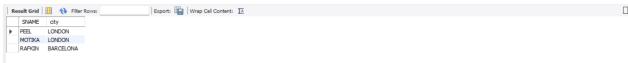


- → Query: select max(RATING) from CUSTOMER where RATING > 1000;
- 14. Names and cities of all salespeople in London with commission above 0.12.



- → Query: select SNAME, city from Salesperson where city = 'London' AND comm > 0.12;
- 15. All salespeople either in Barcelona or in London.



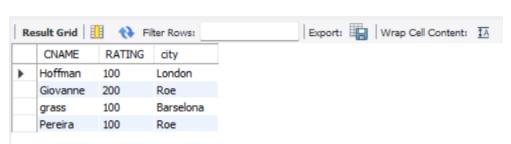


- → Query: select SNAME, city from Salesperson where city = 'London' OR city = 'Barcelona';
- 16. All salespeople with commission between 0.10 and 0.12.



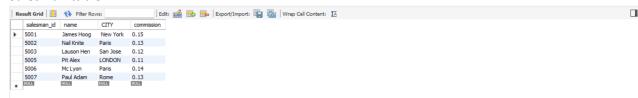
- → Query: select SNAME, COMM from Salesperson where COMM > 0.10 AND COMM < 0.12;
- 17. All customers excluding those with rating <= 100 unless they are located in Rome.

>



→ Query: select CNAME, RATING, city from CUSTOMER where city = 'Roe' or RATING <= 100;

- 18. Write a SQL statement that displays all the information about all salespeople.
- → Salesman table:



→ Salesman table query: create database Pro4;

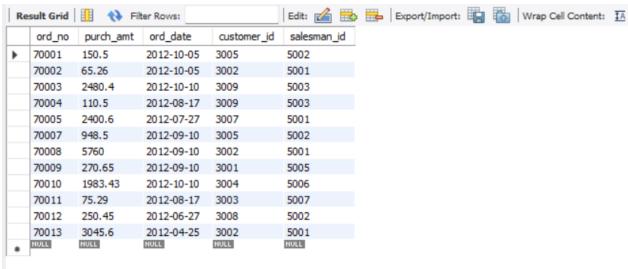
```
use Pro4;
```

```
create table salesman (
salesman_id int primary key,
name varchar(30) not null,
CITY varchar(30) not null,
commission float not null);
```

```
INSERT INTO salesman (salesman_id, name, CITY, commission) VALUES (5001, 'James Hoog', 'New York', 0.15), (5002, 'Nail Knite', 'Paris', 0.13), (5005, 'Pit Alex', 'LONDON', 0.11), (5006, 'Mc Lyon', 'Paris', 0.14), (5007, 'Paul Adam', 'Rome', 0.13), (5003, 'Lauson Hen', 'San Jose', 0.12);
```

select * from salesman;

- 19. From the following table, write a SQL query to find orders that are delivered by a salesperson with ID. 5001. Return ord_no, ord_date, purch_amt.
- → Order table:



→ Order table query: select * from salesman;

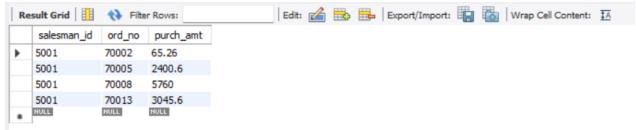
```
CREATE TABLE orders (
ord_no int primary key not null,
purch_amt float NOT NULL,
ord_date date NOT NULL,
customer_id INT,
```

```
salesman_id int ,
foreign key (salesman_id) references salesman (salesman_id));

insert into orders (ord_no,purch_amt,ord_date,customer_id,salesman_id)
values (70001, 150.5,'2012-10-05', 3005, 5002),
(70009, 270.65, '2012-09-10', 3001, 5005),
(70002, 65.26, '2012-10-05', 3002, 5001),
(70004, 110.5, '2012-08-17', 3009, 5003),
(70007, 948.5, '2012-09-10', 3005, 5002),
(70005, 2400.6, '2012-07-27', 3007, 5001),
(70010, 1983.43, '2012-10-10', 3004, 5006),
(70003, 2480.4, '2012-10-10', 3009, 5003),
(70012, 250.45, '2012-06-27', 3008, 5002),
(70011, 75.29, '2012-08-17', 3003, 5007),
(70013, 3045.6, '2012-04-25', 3002, 5001);
```

select * from orders;

→ Return ord_no, ord_date, purch_amt:

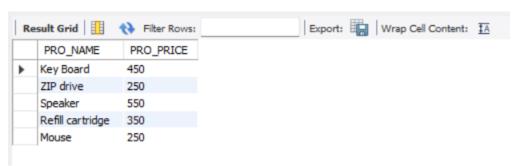


- → Query: select salesman_id, ord_no, purch_amt from orders where salesman_id = 5001;
- 20. From the following table, write a SQL query to select a range of products whose price is in the range Rs.200 to Rs.600. Begin and end values are included. Return pro_id, pro_name, pro_price, and pro_com.
- → item_mast table:



→ item_mast query: create database Pro5; use Pro5; create table item mast (PRO ID int primary key auto increment, PRO_NAME varchar(30) not null, PRO_PRICE float not null, PRO COM int not null); alter table 'item_mast' auto_increment = 101; INSERT INTO item_mast (PRO_NAME, PRO_PRICE, PRO_COM) VALUES ('Mother Board', 3200.00, 15), ('Key Board', 450.00, 16), ('ZIP drive', 250.00, 14), ('Speaker', 550.00, 16), ('Monitor', 5000.00, 11), ('DVD drive', 900.00, 12), ('CD drive', 800.00, 12), ('Printer', 2600.00, 13), ('Refill cartridge', 350.00, 13), ('Mouse', 250.00, 12); select * from item mast;

→



- → Query: select PRO_NAME, PRO_PRICE from item_mast where PRO_PRICE > 200 and PRO_PRICE < 600;
- 21. From the following table, write a SQL query to calculate the average price for a manufacturer code of 16. Return avg.



→ Query: select avg (PRO_PRICE) as avg_price from item_mast where PRO_COM = 16;

22. From the following table, write a SQL query to display the pro_name as 'Item Name' and pro_priceas 'Price in Rs.'

→

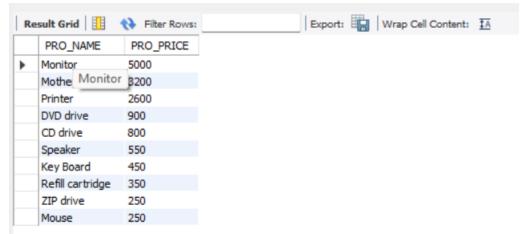
Re	esult Grid	Filter Rows:	Export:	Wrap Cell Content:	
	Item Name	Price in Rs.			
•	Mother Board	3200			
	Key Board	450			
	ZIP drive	250			
	Speaker	550			
	Monitor	5000			
	DVD drive	900			
	CD drive	800			
	Printer	2600			
	Refill cartridge	350			
	Mouse	250			

- → Query: select PRO_NAME as 'Item Name', PRO_PRICE as 'Price in Rs.' from item_mast;
- 23. From the following table, write a SQL query to find the items whose prices are higher than or equal to \$250. Order the result by product price in descending, then product name in ascending. Return pro_name and pro_price.

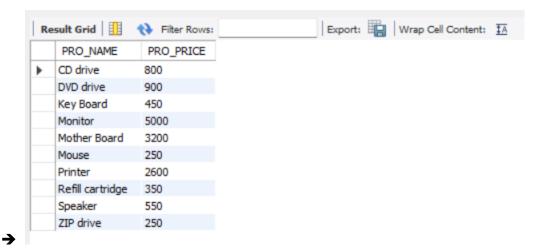
→

Resul	lt Grid 🔡 🐧	Filter Rows:
P	PRO_NAME	PRO_PRICE
▶ M	lother Board	3200
Ke	ey Board	450
ZI	IP drive	250
Sp	peaker	550
M	lonitor	5000
D	VD drive	900
C	D drive	800
Pr	rinter	2600
R	efill cartridge	350
М	louse	250

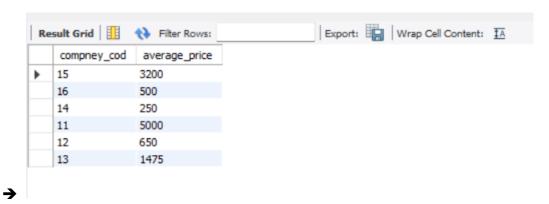
→ Query: select PRO_NAME, PRO_PRICE from item_mast where PRO_PRICE >= 250;



→ Query: select PRO_NAME, PRO_PRICE from item_mast order by PRO_PRICE desc;



- → Query: select PRO_NAME, PRO_PRICE from item_mast order by PRO_NAME asc;
- 24. From the following table, write a SQL query to calculate average price of the items for each company. Return average price and company code.



→ Query: select PRO_COM as compney_cod, avg(PRO_PRICE) as average_price from item_mast group by PRO_COM;