

1. Create Table Name : Student and Exam.

CREAT DATABASE School

CREAT TABLE Student

```
(  
Roll_number int PRIMARY KEY AUTO_INCREMENT  
Name varchar(255)  
Branch Varchar(255)  
);
```

INSERT INTO Student(Name,Bramch) VALUES("Jay","Computer Science"),("Suhani","Electronic and Com"),("Kriti","Electronic and Com")

	Roll_Number	Name	Branch
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	Jay	Computer Science
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	Suhani	Electronic and Com
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	Kriti	Electronic and Com

2. Create table given below.

CREATE DATABASE info

CREATE TABLE information

```
(  
Frist_Name varchar(255),  
Last_Name varchar(255),  
Address varchar(255),  
city varchar(255),  
age int  
)
```

INSERT INTO information (Frist_Name,Last_Name,Address,city,age) VALUES("Mickey","Mouse","123 Fantasy Way","Anaheim",73),("Bat","Man","321 Cavern Ave","Gotham",54),("Wonder","Woman","987 Truth Way","Paradise",39),("Donald","Duck","555 Quack Street","Mallard",65),("Bugs","Bunny","567 Carrot Street","Rascal",58),("Wiley","Coyte","999 Acme Way","Canyon",61),("Cat","Woman","234 Purrfect Street","Hairball",32),("Tweety","Bird","543","Itotltaw",28)

Frist_Name	Last_Name	Address	city	age
Mickey	Mouse	123 Fantasy Way	Anaheim	73
Bat	Man	321 Cavern Ave	Gotham	54
Wonder	Woman	987 Truth Way	Paradise	39
Donald	Duck	555 Quack Street	Mallard	65
Bugs	Bunny	567 Carrot Street	Rascal	58
Wiley	Coyte	999 Acme Way	Canyon	61
Cat	Woman	234 Purrfect Street	Hairball	32
Tweety	Bird	543	Itotltaw	28

3. Create table given below: Employee and Incentive Table Name: Employee.

```
CREATE TABLE Employee
(
    Employee_id int PRIMARY KEY AUTO_INCREMENT,
    First_name varchar(255),
    Last_name varchar(255),
    Salary int,
    joining_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
    department varchar(255)
)
INSERT into employe(Employee_id,Last_name,Salary,department)
VALUES("JOHN","ABRAHAM",1000000,"BANKING"),
("MICHAEL","CLERK",80000,"INSURANCE"),
("ROY","THOMAS",70000,"BANKING"),
("TOP","JONES",60000,"INSURANCE"),
("JERRY","PINTO",65000,"INSURANCE"),
("PHILIP","MATHEW",75000,"SERVICE")
```

	Employee_id	First_name	Last_name	Salary	joining_date	department
<input type="checkbox"/> Edit Copy Delete	1	JOHN	ABRAHAM	1000000	2023-10-06 22:57:30	BANKING
<input type="checkbox"/> Edit Copy Delete	2	MICHAEL	CLERK	80000	2023-10-06 22:57:30	INSURANCE
<input type="checkbox"/> Edit Copy Delete	3	ROY	THOMAS	70000	2023-10-06 22:57:30	BANKING
<input type="checkbox"/> Edit Copy Delete	4	TOP	JONES	60000	2023-10-06 22:57:30	INSURANCE
<input type="checkbox"/> Edit Copy Delete	5	JERRY	PINTO	65000	2023-10-06 22:57:30	INSURANCE
<input type="checkbox"/> Edit Copy Delete	6	PHILIP	MATHEW	75000	2023-10-06 22:57:30	SERVICE

Table Name: Incentive

```
create TABLE incintiv(
IN_id int PRIMARY key AUTO_INCREMENT,
Employee _ref_id int,
FOREIGN KEY(Employee _ref_id) REFERENCES employee(Employee _id),
incentiv_date TIMESTAMP DEFAULT CURRENT_TIMESTAMP,
incentiv_AMT int
)
```

	IN_id	employee_ref_id	incentiv_date	incentiv_AMT
<input type="checkbox"/> Edit Copy Delete	1	1	2023-10-06 23:04:30	5000
<input type="checkbox"/> Edit Copy Delete	2	2	2023-10-06 23:04:30	3000
<input type="checkbox"/> Edit Copy Delete	3	3	2023-10-06 23:04:30	4000
<input type="checkbox"/> Edit Copy Delete	4	1	2023-10-06 23:04:30	4500
<input type="checkbox"/> Edit Copy Delete	5	2	2023-10-06 23:04:30	3500

a) Get First_Name from employee table using Tom name “Employee Name”.

```
SELECT First_name as employee FROM employee
```

	employee_name
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	JOHN
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	MICHAEL
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	ROY
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	TOP
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	JERRY
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	PHILIP

b) Get FIRST_NAME, Joining Date, and Salary from employee table.

```
SELECT First_name, EXTRACT(YEAR FROM joining_date) AS year,  
EXTRACT(MONTH FROM joining_date) AS month,  
EXTRACT(day FROM joining_date) AS day FROM employee
```

	First_name	year	month	day
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	JOHN	2023	10	6
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	MICHAEL	2023	10	6
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	ROY	2023	10	6
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	TOP	2023	10	6
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	JERRY	2023	10	6
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	PHILIP	2023	10	6

c) Get all employee details from the employee table order by First_Name Ascending and Salary descending?

```
SELECT First_name,Salary FROM employee ORDER BY First_name ASC, Salary DESC;
```

	First_name	Salary
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	JERRY	65000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	JOHN	1000000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	MICHAEL	80000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	PHILIP	75000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	ROY	70000
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	TOP	60000

d) Get employee details from employee table whose first name contains 'J'.

SELECT First_name FROM employee WHERE First_name LIKE "%o%"

				First_name
<input type="checkbox"/>	Edit	Copy	Delete	JOHN
<input type="checkbox"/>	Edit	Copy	Delete	ROY
<input type="checkbox"/>	Edit	Copy	Delete	TOP

e) Get department wise maximum salary from employee table order by salary ascending?

SELECT * from employee WHERE MONTH(joining_date) = 10;

	Employee_id	First_name	Last_name	Salary	joining_date	department	
<input type="checkbox"/>	1	JOHN	ABRAHAM	1000000	2023-10-06 22:57:30	BANKING	
<input type="checkbox"/>	2	MICHAEL	CLERK	80000	2023-10-06 22:57:30	INSURANCE	
<input type="checkbox"/>	3	ROY	THOMAS	70000	2023-10-06 22:57:30	BANKING	
<input type="checkbox"/>	4	TOP	JONES	60000	2023-10-06 22:57:30	INSURANCE	
<input type="checkbox"/>	5	JERRY	PINTO	65000	2023-10-06 22:57:30	INSURANCE	
<input type="checkbox"/>	6	PHILIP	MATHEW	75000	2023-10-06 22:57:30	SERVICE	

f) Select first_name, incentive amount from employee and incentives table for those employees who have incentives and incentive amount greater than 3000

SELECT department , sum(Salary) FROM employee GROUP BY department ORDER BY Salary DESC;

		department	sum(Salary)
<input type="checkbox"/>	Edit	BANKING	1070000
<input type="checkbox"/>	Edit	INSURANCE	205000
<input type="checkbox"/>	Edit	SERVICE	75000

g) Create After Insert trigger on Employee table which insert records in view table

SELECT department , MAX(Salary) FROM employee GROUP BY department ORDER BY Salary ASC;

		department	MAX(Salary)
<input type="checkbox"/>	Edit	SERVICE	75000
<input type="checkbox"/>	Edit	INSURANCE	80000
<input type="checkbox"/>	Edit	BANKING	1000000

4. Create table given below: Salesperson and Customer

TABLE 1

```
CREATE TABLE SALS_PERSON
```

```
(
```

```
  SNO int PRIMARY KEY AUTO_INCREMENT,
```

```
  SNAME varchar(50),
```

```
  CITY varchar(50),
```

```
  COMM float
```

```
);
```

```
INSERT INTO `sals_person` (`SNO`, `SNAME`, `CITY`, `COMM`) VALUES ('1001',  
'PEEL', 'LONDON', '0.12');
```

```
INSERT INTO `sals_person` (`SNO`, `SNAME`, `CITY`, `COMM`) VALUES ('1002',  
'SERRES', 'SAN JOSE', '0.13');
```

```
INSERT INTO `sals_person` (`SNO`, `SNAME`, `CITY`, `COMM`) VALUES ('1004',  
'MOTIKA', 'LONDON', '0.11');
```

```
INSERT INTO `sals_person` (`SNO`, `SNAME`, `CITY`, `COMM`) VALUES ('1007',  
'RAFKIN', 'BARCELONA', '0.15');
```

```
INSERT INTO `sals_person` (`SNO`, `SNAME`, `CITY`, `COMM`) VALUES ('1003',  
'AXELROD', 'NEW YORK', '0.1');
```







				SNO	SNAME	CITY	COMM
<input type="checkbox"/>	 Edit	 Copy	 Delete	1001	PEEL	LONDON	0.12
<input type="checkbox"/>	 Edit	 Copy	 Delete	1002	SERRES	SAN JOSE	0.13
<input type="checkbox"/>	 Edit	 Copy	 Delete	1003	AXELROD	NEW YORK	0.1
<input type="checkbox"/>	 Edit	 Copy	 Delete	1004	MOTIKA	LONDON	0.11
<input type="checkbox"/>	 Edit	 Copy	 Delete	1007	RAFKIN	BARCELONA	0.15

TABLE2

```
CREATE TABLE CUSTOMER(
```

```
  CNM int PRIMARY key AUTO_INCREMENT,
```

```
  CNAME varchar(50),
```

```
  CITY varchar(50),
```

























```
  RATING int,
```

```
  SNO int,
```

```
  FOREIGN KEY(SNO) REFERENCES SALS_PERSON (SNO)
```

```
)
```

```
INSERT INTO customer(CNM,CNAME,CITY,RATIN)
VALUES(201,"HOFFMAN","LONDON",100),(202,"GIOVANNE","ROME",200),(203,"
LIU","SAN
JOSE",300),(204,"GRASS","BARCELONA",100),(206,"CLEMENS","LONDON",300),(2
07,"PEREIRA","ROME","100")
```

<div><div>←</div><div>T</div><div>→</div></div>				CNM	CNAME	CITY	RATING	SNO	
<input type="checkbox"/>		 Edit	 Copy	 Delete	201	HOFFMAN	LONDON	100	1001
<input type="checkbox"/>		 Edit	 Copy	 Delete	202	GIOVANNE	ROME	200	1003
<input type="checkbox"/>		 Edit	 Copy	 Delete	203	LIU	SAN JOSE	300	1002
<input type="checkbox"/>		 Edit	 Copy	 Delete	204	GRASS	BARCELONA	100	1002
<input type="checkbox"/>		 Edit	 Copy	 Delete	206	CLEMENS	LONDON	300	1007
<input type="checkbox"/>		 Edit	 Copy	 Delete	207	PEREIRA	ROME	100	1004