

EMPLOYEE DATABASE

```
create database emp;
```

```
use emp;
```

```
CREATE TABLE dept (  
    deptno decimal(2,0) primary key,  
    dname varchar(14) default NULL,  
    loc varchar(13) default NULL  
);
```

```
CREATE TABLE emp (  
    empno decimal(4,0) primary key,  
    ename varchar(10) default NULL,  
    mgr_no decimal(4,0) default NULL,  
    hiredate date default NULL,  
    sal decimal(7,2) default NULL,  
    deptno decimal(2,0) references dept(deptno) on delete cascade on update cascade  
);
```

```
create table incentives (  
    empno decimal(4,0) references emp(empno) on delete cascade on update cascade,  
    incentive_date date,  
    incentive_amount decimal(10,2),  
    primary key(empno,incentive_date)  
);
```

```
Create table project (  
    pno int primary key,  
    pname varchar(30) not null,  
    ploc varchar(30)
```

);

Create table assigned_to (

empno decimal(4,0) references emp(empno) on delete cascade on update cascade,

pno int references project(pno) on delete cascade on update cascade,

job_role varchar(30),

primary key(empno,pno)

);

INSERT INTO dept VALUES (10,'ACCOUNTING','MUMBAI');

INSERT INTO dept VALUES (20,'RESEARCH','BENGALURU');

INSERT INTO dept VALUES (30,'SALES','DELHI');

INSERT INTO dept VALUES (40,'OPERATIONS','CHENNAI');

INSERT INTO emp VALUES (7369,'Adarsh',7902,'2012-12-17','80000.00','20');

INSERT INTO emp VALUES (7499,'Shruthi',7698,'2013-02-20','16000.00','30');

INSERT INTO emp VALUES (7521,'Anvitha',7698,'2015-02-22','12500.00','30');

INSERT INTO emp VALUES (7566,'Tanvir',7839,'2008-04-02','29750.00','20');

INSERT INTO emp VALUES (7654,'Ramesh',7698,'2014-09-28','12500.00','30');

INSERT INTO emp VALUES (7698,'Kumar',7839,'2015-05-01','28500.00','30');

INSERT INTO emp VALUES (7782,'CLARK',7839,'2017-06-09','24500.00','10');

INSERT INTO emp VALUES (7788,'SCOTT',7566,'2010-12-09','30000.00','20');

INSERT INTO emp VALUES ('7839','KING',NULL,'2009-11-17','50000.00','10');

INSERT INTO emp VALUES ('7844','TURNER',7698,'2010-09-08','15000.00','30');

INSERT INTO emp VALUES ('7876','ADAMS',7788,'2013-01-12','11000.00','20');

INSERT INTO emp VALUES ('7900','JAMES',7698,'2017-12-03','9500.00','30');

INSERT INTO emp VALUES ('7902','FORD',7566,'2010-12-03','30000.00','20');

INSERT INTO incentives VALUES(7499,'2019-02-01',5000.00);

INSERT INTO incentives VALUES(7521,'2019-03-01',2500.00);

```

INSERT INTO incentives VALUES(7566,'2022-02-01',5070.00);
INSERT INTO incentives VALUES(7654,'2020-02-01',2000.00);
INSERT INTO incentives VALUES(7654,'2022-04-01',879.00);
INSERT INTO incentives VALUES(7521,'2019-02-01',8000.00);
INSERT INTO incentives VALUES(7698,'2019-03-01',500.00);
INSERT INTO incentives VALUES(7698,'2020-03-01',9000.00);
INSERT INTO incentives VALUES(7698,'2022-04-01',4500.00);

```

```

INSERT INTO project VALUES(101,'AI Project','BENGALURU');
INSERT INTO project VALUES(102,'IOT','HYDERABAD');
INSERT INTO project VALUES(103,'BLOCKCHAIN','BENGALURU');
INSERT INTO project VALUES(104,'DATA SCIENCE','MYSURU');
INSERT INTO project VALUES(105,'AUTONOMUS SYSTEMS','PUNE');

```

```






INSERT INTO assigned_to VALUES(7499,101,'Software Engineer');
INSERT INTO assigned_to VALUES(7521,101,'Software Architect');
INSERT INTO assigned_to VALUES(7566,101,'Project Manager');
INSERT INTO assigned_to VALUES(7654,102,'Sales');
INSERT INTO assigned_to VALUES(7521,102,'Software Engineer');
INSERT INTO assigned_to VALUES(7499,102,'Software Engineer');
INSERT INTO assigned_to VALUES(7654,103,'Cyber Security');
INSERT INTO assigned_to VALUES(7698,104,'Software Engineer');
INSERT INTO assigned_to VALUES(7900,105,'Software Engineer');
INSERT INTO assigned_to VALUES(7839,104,'General Manager');

```

Select * from dept;

Result Grid			
Filter Rows:			
	deptno	dname	loc
▶	10	ACCOUNTING	MUMBAI
	20	RESEARCH	BENGALURU
	30	SALES	DELHI
	40	OPERATIONS	CHENNAI
*	NULL	NULL	NULL



select * from emp;

Result Grid			 Filter Rows:	<input type="text"/>	Edit:			
	empno	ename	mgr_no	hiredate	sal	deptno		
▶	7369	Adarsh	7902	2012-12-17	80000.00	20		
	7499	Shruthi	7698	2013-02-20	16000.00	30		
	7521	Anvitha	7698	2015-02-22	12500.00	30		
	7566	Tanvir	7839	2008-04-02	29750.00	20		
	7654	Ramesh	7698	2014-09-28	12500.00	30		
	7698	Kumar	7839	2015-05-01	28500.00	30		
	7782	CLARK	7839	2017-06-09	24500.00	10		
	7788	SCOTT	7566	2010-12-09	30000.00	20		
	7839	KING	NULL	2009-11-17	50000.00	10		
	7844	TURNER	7698	2010-09-08	15000.00	30		
	7876	ADAMS	7788	2013-01-12	11000.00	20		
	7900	JAMES	7698	2017-12-03	9500.00	30		
	7902	FORD	7566	2010-12-03	30000.00	20		
✱	NULL	NULL	NULL	NULL	NULL	NULL		

select * from incentives;

Result Grid	Filter Rows:	Edit:
empno	incentive_date	incentive_amount
7499	2019-02-01	5000.00
7521	2019-02-01	8000.00
7521	2019-03-01	2500.00
7566	2022-02-01	5070.00
7654	2020-02-01	2000.00
7654	2022-04-01	879.00
7698	2019-03-01	500.00
7698	2020-03-01	9000.00
7698	2022-04-01	4500.00
NULL	NULL	NULL

select * from project;

Result Grid			 Filter Rows:	
	pno	pname	ploc	
▶	101	AI Project	BENGALURU	
	102	IOT	HYDERABAD	
	103	BLOCKCHAIN	BENGALURU	
	104	DATA SCIENCE	MYSURU	
	105	AUTONOMUS SYSTEMS	PUNE	
✱	NULL	NULL	NULL	

select * from assigned_to;

Result Grid			
	empno	pno	job_role
▶	7499	101	Software Engineer
	7499	102	Software Engineer
	7521	101	Software Architect
	7521	102	Software Engineer
	7566	101	Project Manager
	7654	102	Sales
	7654	103	Cyber Security
	7698	104	Software Engineer
	7839	104	General Manager
	7900	105	Software Engineer
*	NULL	NULL	NULL

1. Get Employee ID's of those employees who didn't receive incentives
select empno from emp where empno not in (select empno from incentives);

Result Grid	
	empno
▶	7369
	7782
	7788
	7839
	7844
	7876
	7900
	7902
*	NULL

1. List the name of the managers with the most employees

```

SELECT m.ename, count(*)
FROM emp e,emp m
WHERE e.mgr_no = m.empno
GROUP BY m.ename
HAVING count(*) =(SELECT MAX(mycount)
                    from (SELECT COUNT(*) mycount
                          FROM emp
                          GROUP BY mgr_no) a);

```

Result Grid		
	ename	count(*)
▶	Kumar	5

1. Display those managers name whose salary is more than average salary of his employee?

```

SELECT *
FROM emp m
WHERE m.empno IN
  (SELECT mgr_no
   FROM emp)
AND m.sal >
  (SELECT avg(e.sal)
   FROM emp e
   WHERE e.mgr_no = m.empno );

```

empno	ename	mgr_no	hiredate	sal	deptno
7698	Kumar	7839	2015-05-01	28500.00	30
7839	KING	NULL	2009-11-17	50000.00	10
7788	SCOTT	7566	2010-12-09	30000.00	20
NULL	NULL	NULL	NULL	NULL	NULL

1. SQL Query to find the employee details who got second maximum incentive in Febrauary 2019.

```

select *
from emp e,incentives i
where e.empno=i.empno and 2 = ( select count(*)
                                from incentives j
                                where i.incentive_amount <= j.incentive_amount );

```

empno	ename	mgr_no	hiredate	sal	deptno	empno	incentive_date	incentive_amount
7521	Anvitha	7698	2015-02-22	12500.00	30	7521	2019-02-01	8000.00

1. Display those employees who are working in the same dept where his manager is work. ?

```

SELECT *
FROM EMP E
WHERE E.DEPTNO = (SELECT E1.DEPTNO
                  FROM EMP E1
                  WHERE E1.EMPNO=E.MGR_NO);

```

Result Grid						
Filter Rows:						
	empno	ename	mgr_no	hiredate	sal	deptno
▶	7369	Adarsh	7902	2012-12-17	80000.00	20
	7499	Shruthi	7698	2013-02-20	16000.00	30
	7521	Anvitha	7698	2015-02-22	12500.00	30
	7654	Ramesh	7698	2014-09-28	12500.00	30
	7782	CLARK	7839	2017-06-09	24500.00	10
	7788	SCOTT	7566	2010-12-09	30000.00	20
	7844	TURNER	7698	2010-09-08	15000.00	30
	7876	ADAMS	7788	2013-01-12	11000.00	20
	7900	JAMES	7698	2017-12-03	9500.00	30
	7902	FORD	7566	2010-12-03	30000.00	20
*	NULL	NULL	NULL	NULL	NULL	NULL

1. Retrieve the employee numbers of all employees who work on project located in Bengaluru, Hyderabad, or Mysuru

```

select e.empno
from emp e, assigned_to a, project p
where e.empno=a.empno and a.pno=p.pno and
p.ploc in ('Bengaluru','Hyderabad','Mysuru');

```



Result Grid	
	empno
▶	7499
	7499
	7521
	7521
	7566
	7654
	7654
	7698
	7839

1. Write a SQL query to find those employees whose net pay are higher than or equal to the salary of any other employee in the company

```

SELECT distinct e.ename FROM emp e,incentives i
WHERE (SELECT max(sal+incentive_amount)
FROM emp,incentives) >= ANY
(SELECT sal
FROM emp e1
where e.deptno=e1.deptno);

```

Result Grid			
	ename		
▶	Adarsh		
	Shruthi		
	Anvitha		
	Tanvir		
	Ramesh		
	Kumar		
	CLARK		
	SCOTT		
	KING		
	TURNER		
	ADAMS		
	JAMES		
	FORD		