**TABLES:**

**Department:**

| deptno | dname | dloc |
|--------|-------|------|
| 1 | finance | delhi |
| 2 | it | bangalore |
| 3 | marketing | hyderabad |
| 4 | logistics | telangana |
| 5 | RandD | kerala |
| 6 | development | mumbai |
| NULL | NULL | NULL |

**Employee:**

| empno | ename | mgr_no | hiredate | sal | deptno |
|-------|-------|--------|----------|-----|--------|
| 1 | avinash | 5 | 2022-12-01 | 30000 | 3 |
| 2 | dinesh | 5 | 2022-09-16 | 90000 | 2 |
| 3 | balaji | 7 | 2020-01-29 | 50000 | 1 |
| 4 | nikil | 8 | 2021-06-11 | 20000 | 4 |
| 5 | ravi | 6 | 2018-07-23 | 80000 | 2 |
| 6 | ganesh | 7 | 2014-10-11 | 55000 | 6 |
| 7 | ram | 7 | 2014-08-08 | 99000 | 2 |
| 8 | shivani | NULL | 2020-08-09 | 70000 | 2 |
| NULL | NULL | NULL | NULL | NULL | NULL |

**Incentives:**

| empno | incentive_date | incentive_amount |
|-------|----------------|------------------|
| 7 | 2016-03-30 | 10000 |
| 6 | 2019-01-06 | 20000 |
| 5 | 2019-01-10 | 20000 |
| 4 | 2019-01-19 | 18000 |
| 3 | 2019-01-23 | 15000 |
| 8 | 2021-04-08 | 21000 |
| 1 | 2023-05-09 | 10000 |
| 2 | 2023-12-27 | 22500 |
| NULL | NULL | NULL |

**Project:**

| pno | ploc | pname |
|-----|------|-------|
| 1 | bangalore | govt_apps |
| 2 | hyderabad | pop_stats |
| 3 | mysuru | onlineWebsite |
| 4 | delhi | covidChar |
| 5 | bangalore | finManModel |
| 6 | mumbai | goods_marketing |
| 7 | mysuru | hostel_website |
| 8 | kerala | soil_enrichment |
| NULL | NULL | NULL |

**assigned_to:**

| empno | pno | job_role |
|---|---|---|
| 1 | 2 | statician |
| 3 | 5 | financier |
| 4 | 6 | marketing_engg |
| 7 | 3 | developer |
| 8 | 4 | scientist |
| 2 | 7 | developer |
| 5 | 8 | ag_scientist |

**Queries:**

**List the name of the managers with the maximum employees:**

select e1.ename

from employee e1, employee e2

where e1.empno=e2.mgr_no

group by e1.ename

having count(e1.mgr_no)=(select count(e1.ename)

from employee e1, employee e2

where e1.empno=e2.mgr_no

group by e1.ename order by count(e1.ename) desc limit 1);

| ename |
|---|
| ram |

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

SELECT m.ename

FROM employee m

WHERE m.empno IN

  (SELECT mgr_no

   FROM employee)

 AND m.sal >

  (SELECT avg(e.sal)

   FROM employee e

   WHERE e.mgr_no = m.empno );

| ename |
|---|
| ravi |
| ram |
| shivani |

**Find the name of the second top level managers of each department:**

select ename from employee where empno in(select distinct mgr_no

from employee

where empno in (select distinct mgr_no

from employee

where empno in(select distinct mgr_no from employee)));

| ename |
| --- |
| ▶ ram |

**Find the employee details who got second maximum incentive in January 2019:**

select e.empno, e.ename, e.mgr_no, e.hiredate, e.sal, e.deptno from incentives i,employee e where i.empno=e.empno and i.incentive_amount=(select max(incentive_amount) from incentives where incentive_date like '2019-01%' and incentive_amount!=(select max(incentive_amount) from incentives where incentive_date like '2019-01%'));

| empno | ename | mgr_no | hiredate | sal | deptno |
| --- | --- | --- | --- | --- | --- |
| ▶ 4 | nikil | 8 | 2021-06-11 | 20000 | 4 |

**Display those employees who are working in the same department where his manager is working:**

select e2.ename

from employee e1, employee e2

where e1.empno=e2.mgr_no and e1.deptno=e2.deptno;

| ename |
| --- |
| ▶ dinesh |
| ram |