```sql
127    (7839,104,'General Manager');
128 •  select *from  dept;
129 •  select *from emp;
130 •  select *from incentives;
131 •  select *from project;
132 •  select *from assigned_to;
133    ------------------------------------------
134    -- WEEK 5 QUERIES
135    ------------------------------------------
136
137    -- 1. Employees working in Bengaluru, Hy
138 •  SELECT e.empno
139    FROM emp e
```

deptno	dname	loc
10	ACCOUNTING	MUMBAI
20	RESEARCH	BENGALURU
30	SALES	DELHI
40	OPERATIONS	CHENNAI
NULL	NULL	NULL

dept 1 ×

Output

```sql
128 • select *from  dept;
129 • select *from emp;
130 • select *from incentives;
131 • select *from project;
132 • select *from assigned_to;
133   --------------------------------
134   -- WEEK 5 QUERIES
135   --------------------------------
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wra

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	500000.00	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

emp 2 ✕

Output

```sql
129 • select *from emp;
130 • select *from incentives;
131 • select *from project;
132 • select *from assigned_to;
133   ----------------------------------------
134   -- WEEK 5 QUERIES
135   ----------------------------------------
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap C

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

incentives 3 ×

```
130 •  select *from incentives;
131 •  select *from project;
132 •  select *from assigned_to;
133    ----------------------------
134    -- WEEK 5 QUERIES
135    ----------------------------
```

pno	pname	ploc
101	AI Project	BENGALURU
102	IOT	HYDERABAD
103	BLOCKCHAIN	BENGALURU
104	DATA SCIENCE	MYSURU
105	AUTONOMUS SYSTEMS	PUNE
NULL	NULL	NULL

```
130 •  select *from incentives;
131 •  select *from project;
132 •  select *from assigned_to;
133    ------------------------------------------------
134    -- WEEK 5 QUERIES
135    ------------------------------------------------
```

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

assigned_to5 ×

```
137    -- 1. Employees working in Bengaluru, Hyderabad, Mysuru projects
138 •  SELECT e.empno
139    FROM emp e
140    JOIN assigned_to a ON e.empno = a.empno
141    JOIN project p ON a.pno = p.pno
142    WHERE p.ploc IN ('BENGALURU','HYDERABAD','MYSURU');
143
144    -- 2. Employee IDs with no incentives
145 •  SELECT empno
146    FROM emp
147    WHERE empno NOT IN (SELECT empno FROM incentives);
```

empno
7499
7521
7566
7499
7521
7654
7654
7698
7839

Result 6 ×

```sql
141    JOIN project p ON a.pno = p.pno
142    WHERE p.ploc IN ('BENGALURU','HYDERABAD','MYSURU');
143
144    -- 2. Employee IDs with no incentives
145 •  SELECT empno
146    FROM emp
147    WHERE empno NOT IN (SELECT empno FROM incentives);
148
149    -- 3. Employees working at project location same as dept l
150 •  SELECT e.ename, e.empno, e.deptno, a.job_role, d.loc AS dep
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content:

empno
7782
7839
7369
7788
7876
7902
7844
7900
NULL

emp 7 ×

```sql
148
149    -- 3. Employees working at project location same as dept location
150 •  SELECT e.ename, e.empno, e.deptno, a.job_role, d.loc AS dept_loc, p.ploc AS project_loc
151    FROM emp e
152    JOIN dept d ON e.deptno = d.deptno
153    JOIN assigned_to a ON e.empno = a.empno
154    JOIN project p ON a.pno = p.pno
155    WHERE d.loc = p.ploc;
156
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

ename	empno	deptno	job_role	dept_loc	project_loc
Tanvir	7566	20	Project Manager	BENGALURU	BENGALURU

```sql
161    -- 1. Managers with highest number of employees
162 •  SELECT m.ename, COUNT(*) AS emp_count
163    FROM emp e
164    JOIN emp m ON e.mgr_no = m.empno
165    GROUP BY m.ename
166    HAVING COUNT(*) = (
167        SELECT MAX(mycount)
168        FROM (SELECT COUNT(*) AS mycount FROM emp GROUP BY mgr_no) x
169    );
170
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content:

ename	emp_count
Kumar	5

```sql
170
171    -- 2. Managers whose salary > average salary of their employees
172•   SELECT *
173    FROM emp m
174    WHERE m.empno IN (SELECT mgr_no FROM emp)
175    AND m.sal > (
176        SELECT AVG(e.sal) FROM emp e WHERE e.mgr_no = m.empno
177    );
178
179    -- 3. Top-level manager of each department
```

empno	ename	mgr_no	hiredate	sal	deptno
7698	Kumar	7839	2015-05-01	28500.00	30
7839	KING	NULL	2009-11-17	500000.00	10
7788	SCOTT	7566	2010-12-09	30000.00	20
NULL	NULL	NULL	NULL	NULL	NULL

```sql
178
179    -- 3. Top-level manager of each department
180•   SELECT d.dname, e.ename AS top_manager
181    FROM dept d
182    JOIN emp e ON d.deptno = e.deptno
183    WHERE e.mgr_no IS NULL;
184
185    -- 4. Employee with 2nd highest incentive in Feb 2019
```

dname	top_manager
ACCOUNTING	KING

```sql
185    -- 4. Employee with 2nd highest incentive in Feb 2019
186•   SELECT e.*
187    FROM emp e
188    JOIN incentives i ON e.empno = i.empno
189    WHERE MONTH(i.incentive_date)=2 AND YEAR(i.incentive_date)=2019
190    AND 2 = (
191        SELECT COUNT(*)
192        FROM incentives j
193        WHERE j.incentive_amount >= i.incentive_amount
194    );
195
```

empno	ename	mgr_no	hiredate	sal	deptno
7521	Anvitha	7698	2015-02-22	12500.00	30

```
196    -- 5. Employees working in same dept as their manager
197 •  SELECT *
198    FROM emp e
199    WHERE e.deptno = (
200        SELECT deptno FROM emp m WHERE m.empno = e.mgr_no
201    );
202
203    -- 6. Employees whose net pay >= salary of any employee
204 •  SELECT DISTINCT e.ename, e.empno
```

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: I_A

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

```
202
203    -- 6. Employees whose net pay >= salary of any employee
204 •  SELECT DISTINCT e.ename, e.empno
205    FROM emp e
206    JOIN incentives i ON e.empno = i.empno
207    WHERE (e.sal + i.incentive_amount) >= ANY (SELECT sal FROM emp);
208
209
```

Result Grid | Filter Rows: | Export: | Wrap Cell Content: I_A

ename	empno
Shruthi	7499
Anvitha	7521
Tanvir	7566
Ramesh	7654
Kumar	7698