DBMS Lab assessment 2
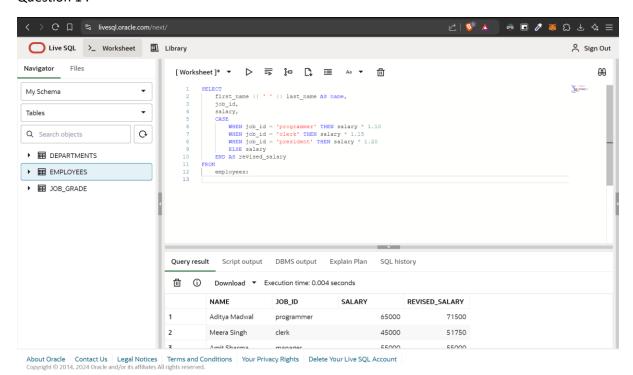
- **Aditya Madwal**
- **2200290120011**

Question 1 :

Question 2 :

Ques 3 :

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▶ ▦ JOB_GRADE

[Worksheet]* ▼   ▷ ≣ ⊱ ⬀ ⬓ Aa ▼   🗑   🔍

```
1  SELECT
2      d.department_name,
3      e.employee_id
4  FROM
5      employees e
6  JOIN
7      departments d ON e.department_id = d.department_id;
8
```

Query result   Script output   DBMS output   Explain Plan   SQL history

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	DEPARTMENT_NAM	EMPLOYEE_ID
1	IT	101
2	Human Resources	102
3	Sales	103

Ques 4 :

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[Worksheet]* ▼   ▷ ≣ ⊱ ⬀ ⬓ Aa ▼   🗑   🔍

```
1  SELECT
2      first_name || ' ' || last_name AS name,
3      job_id,
4      salary
5  FROM
6      employees
7  WHERE
8      (job_id = 'president' OR job_id = 'clerk')
9      AND salary NOT IN (2500, 3500, 7000);
10
```

Query result   Script output   DBMS output   Explain Plan   SQL history

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	NAME	JOB_ID	SALARY
1	Meera Singh	clerk	45000
2	Priya Ghosh	president	75000
3	Ananya Desai	clerk	40000

Ques 5 :

Navigator   Files

My Schema ▾

Tables ▾

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▸ 🗎 DEPARTMENTS
▸ 🗎 EMPLOYEES
▸ 🗎 JOB_GRADE

[Worksheet]* ▾   ▷ ☰ ⊦⊐ 📄 ⊒ Aa ▾   🗑

```
1   SELECT
2       department_id,
3       AVG(salary) AS average_salary
4   FROM
5       employees
6   GROUP BY
7       department_id
8   HAVING
9       AVG(salary) > 8000;
10
```

Query result   Script output   DBMS output   Explain Plan   SQL history

🗑 ⓘ   Download ▾   Execution time: 0.004 seconds

	DEPARTMENT_ID	AVERAGE_SALARY
1	3	7333.33333333333
2	1	42500
3	4	8666.666666666664

Ques 6 :

Navigator   Files

My Schema ▾

Tables ▾

🔍 Search objects   ↻

▸ 🗎 DEPARTMENTS
▸ 🗎 EMPLOYEES
▸ 🗎 JOB_GRADE

[Worksheet]* ▾   ▷ ☰ ⊦⊐ 📄 ⊒ Aa ▾   🗑

```
1    SELECT
2        job_id,
3        SUM(salary) AS total_salary
4    FROM
5        employees
6    WHERE
7        job_id <> 'president'
8        AND salary > 10000
9    GROUP BY
10       job_id
11   ORDER BY
12       total_salary ASC;
13
```

Query result   Script output   DBMS output   Explain Plan   SQL history

🗑 ⓘ   Download ▾   Execution time: 0.007 seconds

	JOB_ID	TOTAL_SALARY
1	intern	50000
2	clerk	85000
3	manager	111000

Ques 7 :

Navigator   Files

My Schema ▼

Tables ▼

🔍 Search objects

▸ ⊞ DEPARTMENTS
▸ ⊞ EMPLOYEES
▸ ⊞ JOB_GRADE

[Worksheet]* ▼

```
1  SELECT
2    department_id,
3    job_id,
4    SUM(salary) AS total_salary
5  FROM
6    employees
7  GROUP BY
8    department_id, job_id;
9
```

Query result   Script output   DBMS output   Explain Plan   SQL history

🗑 ⓘ Download ▼ Execution time: 0.007 seconds

	DEPARTMENT_ID	JOB_ID	TOTAL_SALARY
1	3	programmer	202000
2	1	clerk	85000
3	4	manager	111000

Ques 8 :

Navigator   Files

My Schema ▼

Tables ▼

🔍 Search objects

▸ ⊞ DEPARTMENTS
▸ ⊞ EMPLOYEES
▸ ⊞ JOB_GRADE

[Worksheet]* ▼

```
1  SELECT
2    el.first_name || ' ' || el.last_name AS name,
3    el.department_id
4  FROM
5    employees el
6  WHERE
7    el.department_id = (SELECT department_id FROM employees WHERE employee_id = :emp_id)
8    AND el.employee_id <> :emp_id;
9
```

Query result   Script output   DBMS output   Explain Plan   SQL history

🗑 ⓘ Download ▼ Execution time: 0.007 seconds

	DEPARTMENT_ID	JOB_ID	TOTAL_SALARY
1	3	programmer	202000
2	1	clerk	85000
3	4	manager	111000

Ques 9 :

Navigator   Files

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▶ ▦ DEPARTMENTS
▶ ▦ EMPLOYEES
▶ ▦ JOB_GRADE

[Worksheet]* ▾   ▷ ⇶ ┇□ ↳ ⊇   Aa ▾   🗑   🔍

```
1    SELECT
2        first_name·||·'·'·||·last_name·AS·name,
3        department_id,
4        salary
5    FROM
6        employees
7    WHERE
8        department_id·=·ANY·(SELECT·department_id·FROM·employees·WHERE·commission_pct·IS·NOT·NULL)
9        AND·salary·=·ANY·(SELECT·salary·FROM·employees·WHERE·commission_pct·IS·NOT·NULL);
10
```

Query result   Script output   DBMS output   Explain Plan   SQL history

🗑 ⓘ   Download ▾   Execution time: 0.01 seconds

	NAME	DEPARTMENT_ID	SALARY
1	Aditya Madwal	3	65000
2	Sita Chowdhury	3	70000
3	Lata Joshi	3	67000

Ques 10 :

Navigator   Files

My Schema ▾

Tables ▾

🔍 Search objects   ↻

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▶ ▦ EMPLOYEES
▶ ▦ JOB_GRADE

[Worksheet]* ▾   ▷ ⇶ ┇□ ↳ ⊇   Aa ▾   🗑   🔍

```
1    SELECT
2        first_name·||·'·'·||·last_name·AS·name,
3        d.department_name,
4        e.salary
5    FROM
6        employees·e
7    JOIN
8        departments·d·ON·e.department_id·=·d.department_id
9    WHERE
10       e.salary·=·ANY·(SELECT·salary·FROM·employees·WHERE·commission_pct·IS·NOT·NULL)
11       AND·e.commission_pct·=·ANY·(SELECT·commission_pct·FROM·employees·WHERE·location_id·=·1700);
12
```

Query result   Script output   DBMS output   Explain Plan   SQL history

🗑 ⓘ   Download ▾   Execution time: 0.011 seconds

	NAME	DEPARTMENT_NAM	SALARY
1	Meera Singh	Human Resources	45000
2	Ananya Desai	Human Resources	40000

Ques 12 :

SELECT
    first_name || ' ' || last_name AS name,
    salary,
    department_id,
    AVG(salary) AS average_salary
FROM
    employees
GROUP BY
    department_id, name, salary
HAVING
    salary > AVG(salary)
ORDER BY
    average_salary;