

DBMS Lab assessment 2

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Question 1 :

The screenshot shows the Oracle Live SQL interface. The left sidebar contains a Navigator with 'My Schema' and a list of tables: DEPARTMENTS, EMPLOYEES, and JOB_GRADE. The main editor shows a SQL query:

```
1 SELECT
2   first_name || ' ' || last_name AS name,
3   job_id,
4   salary,
5   CASE
6     WHEN job_id = 'programmer' THEN salary * 1.10
7     WHEN job_id = 'clerk' THEN salary * 1.15
8     WHEN job_id = 'president' THEN salary * 1.20
9     ELSE salary
10  END AS revised_salary
11 FROM
12   employees;
13
```

The 'Query result' tab is active, showing the execution time as 0.004 seconds. The result table has columns: NAME, JOB_ID, SALARY, and REVISED_SALARY.

	NAME	JOB_ID	SALARY	REVISED_SALARY
1	Aditya Madwal	programmer	65000	71500
2	Meera Singh	clerk	45000	51750
3	Amit Sharma	manager	55000	66000

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Question 2 :

The screenshot shows the Oracle Live SQL interface. The left sidebar contains a Navigator with 'My Schema' and a list of tables: DEPARTMENTS, EMPLOYEES, and JOB_GRADE. The main editor shows a SQL query:

```
1 SELECT
2   first_name || ' ' || last_name AS name,
3   job_id,
4   DECODE(job_id, 'president', 'A', 'manager', 'B', 'programmer', 'C', 'intern', 'D', 'clerk', 'E') AS grade
5 FROM
6   employees;
7
```

The 'Query result' tab is active, showing the execution time as 0.003 seconds. The result table has columns: NAME, JOB_ID, and GRADE.

	NAME	JOB_ID	GRADE
1	Aditya Madwal	programmer	C
2	Meera Singh	clerk	E
3	Amit Sharma	manager	B

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Ques 3 :

The screenshot shows the Live SQL interface with a worksheet containing the following SQL query:

```
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
```

The query result is displayed in a table with the following data:

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

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Ques 4 :

The screenshot shows the Live SQL interface with a worksheet containing the following SQL query:

```
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
```

The query result is displayed in a table with the following data:

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

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Ques 5 :

The screenshot shows the Oracle Live SQL interface. On the left, the 'Navigator' pane shows a schema named 'My Schema' with three tables: 'DEPARTMENTS', 'EMPLOYEES', and 'JOB_GRADE'. The 'EMPLOYEES' table is selected. The main workspace shows a SQL query in a worksheet:

```
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
```

Below the query, the 'Query result' tab is active, showing the execution time as 0.004 seconds. The results are displayed in a table:

	DEPARTMENT_ID	AVERAGE_SALARY
1	3	7333.33333333333
2	1	42500
3	4	666.666666666664

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Ques 6 :

The screenshot shows the Oracle Live SQL interface. On the left, the 'Navigator' pane shows a schema named 'My Schema' with three tables: 'DEPARTMENTS', 'EMPLOYEES', and 'JOB_GRADE'. The 'EMPLOYEES' table is selected. The main workspace shows a SQL query in a worksheet:

```
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
```

Below the query, the 'Query result' tab is active, showing the execution time as 0.007 seconds. The results are displayed in a table:

	JOB_ID	TOTAL_SALARY
1	intern	50000
2	clerk	85000
3	manager	111000

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Ques 7 :

The screenshot shows the Oracle Live SQL interface. On the left, the 'Navigator' pane displays a tree view of the 'My Schema' containing tables 'DEPARTMENTS', 'EMPLOYEES', and 'JOB_GRADE'. The 'EMPLOYEES' table is selected. The main editor shows a SQL query:

```
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;
```

The 'Query result' pane shows the execution time as 0.007 seconds and displays the following table:

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

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Ques 8 :

The screenshot shows the Oracle Live SQL interface. On the left, the 'Navigator' pane displays a tree view of the 'My Schema' containing tables 'DEPARTMENTS', 'EMPLOYEES', and 'JOB_GRADE'. The 'EMPLOYEES' table is selected. The main editor shows a SQL query:

```
1 SELECT
2   ... e1.first_name || ' ' || e1.last_name AS name,
3   ... e1.department_id
4 FROM
5   ... employees e1
6 WHERE
7   ... e1.department_id = (SELECT department_id FROM employees WHERE employee_id = :emp_id)
8   AND e1.employee_id <> :emp_id;
```

The 'Query result' pane shows the execution time as 0.007 seconds and displays the following table:

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

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Ques 9 :

Live SQL

Worksheet

Library

Sign Out

Navigator

Files

My Schema

Tables

Search objects

DEPARTMENTS

EMPLOYEES

JOB_GRADE

[Worksheet]*

1

2

3

4

5

6

7

8

9

10

SELECT

--first_name || ' ' || last_name AS name,

--department_id,

--salary

FROM

employees

WHERE

--department_id = ANY (SELECT department_id FROM employees WHERE commission_pct IS NOT NULL) ;

--AND salary = ANY (SELECT salary FROM employees WHERE commission_pct IS NOT NULL);

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

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Ques 10 :

Live SQL

Worksheet

Library

Sign Out

Navigator

Files

My Schema

Tables

Search objects

DEPARTMENTS

EMPLOYEES

JOB_GRADE

[Worksheet]*

1

2

3

4

5

6

7

8

9

10

11

12

SELECT

--first_name || ' ' || last_name AS name,

--d.department_name,

--e.salary

FROM

employees e

JOIN

departments d ON e.department_id = d.department_id

WHERE

--e.salary = ANY (SELECT salary FROM employees WHERE commission_pct IS NOT NULL) ;

--AND e.commission_pct = ANY (SELECT commission_pct FROM employees WHERE location_id = 1700);

Query result

Script output

DBMS output

Explain Plan

SQL history

Download

Execution time: 0.011 seconds

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

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Ques 12 :

Live SQL

Worksheet

Library

Sign Out

NavigatorFiles

My Schema

Tables

Search objects

DEPARTMENTS

EMPLOYEES

JOB_GRADE

[Worksheet]*

1SELECT

2--first_name || '-' || last_name AS name,

3--salary,

4--department_id,

5--AVG(salary) AS average_salary

6FROM

7--employees

8GROUP BY

9--department_id, name, salary

10HAVING

11--salary > AVG(salary)

12ORDER BY

13--average_salary;

14

Query result

Script output

DBMS output

Explain Plan

SQL history

Download

Execution time: 0.006 seconds

NAME	SALARY	DEPARTMENT_ID	AVERAGE_SALARY
No items to display.			

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