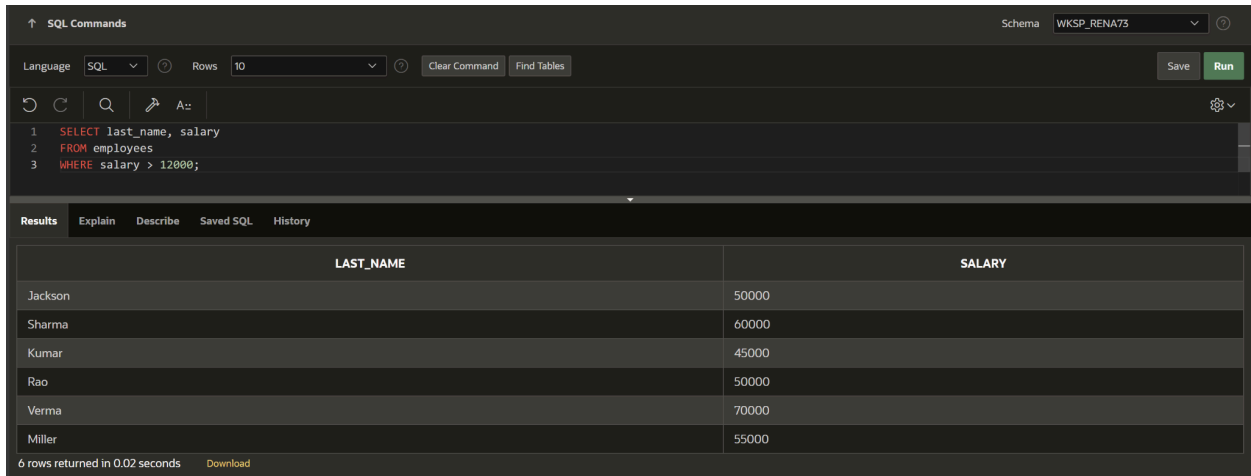


EXERCISE-5

Restricting and Sorting data

NAME	RENA J
ROLL NO	241801227
DEPARTMENT	AI&DS

1 .Create a query to display the last name and salary of employees earning more than 12000.



The screenshot shows a SQL interface with the following components:

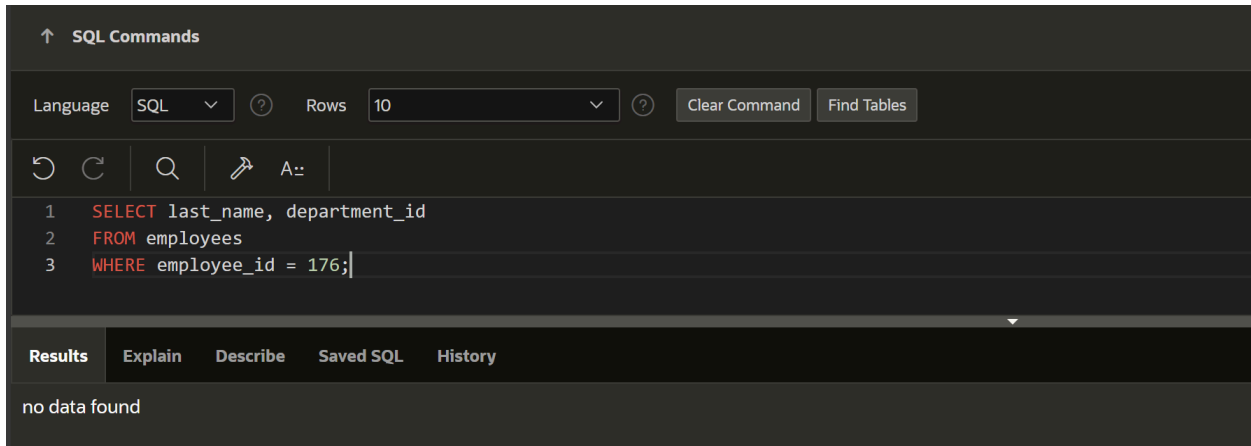
- SQL Commands:** Language: SQL, Rows: 10, Clear Command, Find Tables, Save, Run.
- Query:**

```
1 SELECT last_name, salary
2 FROM employees
3 WHERE salary > 12000;
```
- Results:** Explain, Describe, Saved SQL, History.
- Table:**

LAST_NAME	SALARY
Jackson	50000
Sharma	60000
Kumar	45000
Rao	50000
Verma	70000
Miller	55000

6 rows returned in 0.02 seconds Download

2.Create a query to display the employee last name and department number for employee number 176.



The screenshot shows a SQL interface with the following components:

- SQL Commands:** Language: SQL, Rows: 10, Clear Command, Find Tables.
- Query:**

```
1 SELECT last_name, department_id
2 FROM employees
3 WHERE employee_id = 176;
```
- Results:** Explain, Describe, Saved SQL, History.
- Text:** no data found

3. Create a query to display the last name and salary of employees whose salary is not in the range of 5000 and 12000. (hints: not between)

SQL Commands

Schema: WKSP_RENA73

Language: SQL Rows: 10

```

1 SELECT last_name, salary
2 FROM employees
3 WHERE salary NOT BETWEEN 5000 AND 12000;

```

Results Explain Describe Saved SQL History

LAST_NAME	SALARY
Jackson	50000
Sharma	60000
Kumar	45000
Rao	50000
Verma	70000
Miller	55000

6 rows returned in 0.01 seconds Download

4. Display the employee last name, job ID, and start date of employees hired between February 20,1998 and May 1,1998.order the query in ascending order by start date.(hints: between)

SQL Commands

Language: SQL Rows: 10

```

1 SELECT last_name, job_id, hire_date
2 FROM employees
3 WHERE hire_date BETWEEN TO_DATE('20-FEB-1998', 'DD-MON-YYYY')
4 AND TO_DATE('01-MAY-1998', 'DD-MON-YYYY')
5 ORDER BY hire_date ASC;

```

Results Explain Describe Saved SQL History

no data found

5.Display the last name and department number of all employees in departments 20 and 50 in alphabetical order by name.(hints: in, orderby)

SQL Commands

Schema: WKSP_RENA73

Language: SQL Rows: 10

```

1 SELECT last_name, department_id
2 FROM employees
3 WHERE department_id IN (20, 50)
4 ORDER BY last_name ASC;
5

```

Results Explain Describe Saved SQL History

LAST_NAME	DEPARTMENT_ID
Kumar	20

1 rows returned in 0.01 seconds Download

6. Display the last name and salary of all employees who earn between 5000 and 12000 and are in departments 20 and 50 in alphabetical order by name. Label the columns EMPLOYEE, MONTHLY SALARY respectively. (hints: between, in)

SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables

```
1 SELECT last_name AS EMPLOYEE,  
2 salary AS "MONTHLY SALARY"  
3 FROM employees  
4 WHERE salary BETWEEN 5000 AND 12000  
5 AND department_id IN (20, 50)  
6 ORDER BY last_name ASC;
```

Results Explain Describe Saved SQL History

no data found

7. Display the last name and hire date of every employee who was hired in 1994. (hints: like)

SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables

```
1 SELECT last_name, hire_date  
2 FROM employees  
3 WHERE hire_date LIKE '%1994%';
```

Results Explain Describe Saved SQL History

no data found

8. Display the last name and job title of all employees who do not have a manager. (hints: is null)

SQL Commands

Schema: WKSP_RENA73 Language: SQL Rows: 10 Clear Command Find Tables Save Run

```
1 SELECT last_name, job_id  
2 FROM employees  
3 WHERE manager_id IS NULL;
```

Results Explain Describe Saved SQL History

LAST_NAME	JOB_ID
Sharma	IT_PROG
Kumar	MK_REP
Rao	HR_REP
Verma	PU_MAN

4 rows returned in 0.00 seconds Download

9. Display the last name, salary, and commission for all employees who earn commissions. Sort data in descending order of salary and commissions. (hints: is not null, order by)

The screenshot shows the SQL Developer interface with the following details:

- SQL Commands:**

```
1 SELECT last_name, salary, commission_pct
2 FROM employees
3 WHERE commission_pct IS NOT NULL
4 ORDER BY salary DESC, commission_pct DESC;
```
- Results:** A table with 3 columns: LAST_NAME, SALARY, and COMMISSION_PCT. The first row shows 'Miller' with a salary of 55000 and a commission of .1.
- Footer:** 1 rows returned in 0.01 seconds. Download button.

10. Display the last name of all employees where the third letter of the name is a. (hints: like)

The screenshot shows the SQL Developer interface with the following details:

- SQL Commands:**

```
1 SELECT last_name
2 FROM employees
3 WHERE last_name LIKE '___a%';
```
- Results:** A table with 1 column: LAST_NAME. The first row shows 'Sharma'.
- Footer:** 1 rows returned in 0.00 seconds. Download button.

11. Display the last name of all employees who have an a and an e in their last name. (hints: like)

The screenshot shows the SQL Developer interface with the following details:

- SQL Commands:**

```
1 SELECT last_name
2 FROM employees
3 WHERE last_name LIKE '%a%'
4 | AND last_name LIKE '%e%';
```
- Results:** A table with 1 column: LAST_NAME. The first row shows 'Verma'.
- Footer:** 1 rows returned in 0.01 seconds. Download button.

12. Display the last name and job and salary for all employees whose job is sales representative or stock clerk and whose salary is not equal to 2500, 3500 or 7000. (hints: in, not in)

SQL Commands

Schema: WKSP_RENA73

Language: SQL Rows: 10 Clear Command Find Tables Save Run

```
1 SELECT last_name, job_id, salary
2 FROM employees
3 WHERE job_id IN ('SA_REP', 'ST_CLERK')
4 AND salary NOT IN (2500, 3500, 7000);
```

Results Explain Describe Saved SQL History

LAST_NAME	JOB_ID	SALARY
Miller	SA_REP	55000

1 rows returned in 0.01 seconds Download

13.Display the last name, salary, and commission for all employees whose commission amount is 20%.(hints:use predicate logic)

SQL Commands

Language: SQL Rows: 10 Clear Command Find Tables

```
1 SELECT last_name, salary, commission_pct
2 FROM employees
3 WHERE commission_pct = 0.2;
```

Results Explain Describe Saved SQL History

no data found