

## EXERCISE-5

### Restricting and Sorting data

NAME	PRATHESHA J
ROLL NO	241001172
DEPARTMENT	IT

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

The screenshot shows a SQL command window with the following details:

SQL Commands

Language: SQL | Rows: 10 | Schema: WKSP\_RENA73

Query:

```
1 SELECT last_name, salary
2 FROM employees
3 WHERE salary > 12000;
```

Results:

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 command window with the following details:

SQL Commands

Language: SQL | Rows: 10 | Schema: WKSP\_RENA73

Query:

```
1 SELECT last_name, department_id
2 FROM employees
3 WHERE employee_id = 176;
```

Results:

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

Language: SQL Rows: 10 Schema: WKSP\_RENA73 Save Run

```
SELECT last_name, salary
FROM employees
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 Schema: WKSP\_RENA73 Save Run

```
SELECT last_name, job_id, hire_date
FROM employees
WHERE hire_date BETWEEN TO_DATE('20-FEB-1998', 'DD-MON-YYYY')
AND TO_DATE('01-MAY-1998', 'DD-MON-YYYY')
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

Language: SQL Rows: 10 Schema: WKSP\_RENA73 Save Run

```
SELECT last_name, department_id
FROM employees
WHERE department_id IN (20, 50)
ORDER BY last_name ASC;
```

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)

The screenshot shows a SQL command interface with the following details:

- SQL Commands** tab is active.
- Language: SQL
- Rows: 10
- Clear Command and Find Tables buttons are present.
- Query text:

```
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 tab is selected.
- Output: no data found

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

The screenshot shows a SQL command interface with the following details:

- SQL Commands** tab is active.
- Language: SQL
- Rows: 10
- Clear Command and Find Tables buttons are present.
- Query text:

```
1 SELECT last_name, hire_date
2 FROM employees
3 WHERE hire_date LIKE '%1994%';
```
- Results tab is selected.
- Output: no data found

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

The screenshot shows a SQL command interface with the following details:

- SQL Commands** tab is active.
- Language: SQL
- Rows: 10
- Clear Command and Find Tables buttons are present.
- Query text:

```
1 SELECT last_name, job_id
2 FROM employees
3 WHERE manager_id IS NULL;
```
- Results tab is selected.
- Output:

LAST_NAME	JOB_ID
Sharma	IT_PROG
Kumar	MK_REP
Rao	HR_REP
Verma	PU_MAN

4 rows returned in 0.00 seconds

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,orderby)

```

↑ SQL Commands
Schema WKSP_RENA73

Language SQL Rows 10 Clear Command Find Tables
Save Run

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 Explain Describe Saved SQL History

LAST_NAME          SALARY      COMMISSION_PCT
Miller            55000          .1

1 rows returned in 0.01 seconds Download

```

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

```

↑ SQL Commands
Schema WKSP_RENA73

Language SQL Rows 10 Clear Command Find Tables
Save Run

1 SELECT last_name
2 FROM employees
3 WHERE last_name LIKE '_a%';

Results Explain Describe Saved SQL History

LAST_NAME
Sharma

1 rows returned in 0.00 seconds Download

```

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

```

↑ SQL Commands
Schema WKSP_RENA73

Language SQL Rows 10 Clear Command Find Tables
Save Run

1 SELECT last_name
2 FROM employees
3 WHERE last_name LIKE '%a%'
4 AND last_name LIKE '%e%';

Results Explain Describe Saved SQL History

LAST_NAME
Verma

1 rows returned in 0.01 seconds Download

```

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

Language: SQL Rows: 10 Schema: WKSP\_RENA75 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

This screenshot shows a SQL command window with the following details:

- SQL Commands tab is active.
- Language: SQL, Rows: 10, Schema: WKSP\_RENA75.
- Query: A multi-line SQL SELECT statement filtering employees by job ID (SA\_REP or ST\_CLERK) and salary (not in {2500, 3500, 7000}).
- Results tab is active, displaying a table with columns LAST\_NAME, JOB\_ID, and SALARY. One row is shown: Miller, SA\_REP, 55000.
- Message: 1 rows returned in 0.01 seconds.

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 Schema: WKSP\_RENA75 Save Run

```
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

This screenshot shows a SQL command window with the following details:

- SQL Commands tab is active.
- Language: SQL, Rows: 10, Schema: WKSP\_RENA75.
- Query: A multi-line SQL SELECT statement filtering employees by commission\_pct = 0.2.
- Results tab is active, displaying a message: "no data found".