

DATABASE MANAGEMENT SYSTEM

CS23332

EXERCISE 5

RESTRICTING AND SORTING DATA

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

Language SQL Rows 10 Clear Command Find Tables Save Run

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

Results Explain Describe Saved SQL History

LAST_NAME	SALARY
Johnson	50000
Williams	55000
Smith	65000
Doe	60000

4 rows returned in 0.01 seconds Download

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

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

Results Explain Describe Saved SQL History

no data found

3. 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)

jo_workspace

SQL Commands

Language SQL Rows 10 Clear Command Find Tables

Schema WKSP_JOWORKSPACE Save Run

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

Results Explain Describe Saved SQL History

no data found

4. 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)

The screenshot shows a SQL query execution interface. At the top, there are icons for refresh, copy, search, and other database operations. Below the toolbar, the SQL code is displayed:

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

The results tab is selected, showing the output of the query:

LAST_NAME	SALARY
Johnson	50000
Williams	55000
Smith	65000
Doe	60000

At the bottom left, it says "4 rows returned in 0.01 seconds". There is also a "Download" link.

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

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

- Toolbar:** Includes icons for refresh, copy, search, and other database operations.
- Query Editor:** Displays the following SQL code:

```
1 SELECT last_name, department_id FROM employees
2 WHERE department_id IN (20, 50)
3 ORDER BY last_name ASC;
```
- Results Tab:** Active tab, showing the output of the query.
- Output:** A table with two columns: **LAST_NAME** and **DEPARTMENT_ID**. The single row returned is Johnson (20).
- Timing:** Rows returned in 0.02 seconds.
- Actions:** Download link available.

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 editor interface with the following details:

- Toolbar:** Includes icons for back, forward, search, and sort.
- Code Area:** Displays the following SQL query:

```
1 SELECT
2     last_name AS EMPLOYEE,
3     salary AS "MONTHLY SALARY"
4 FROM employees
5 WHERE salary BETWEEN 5000 AND 12000
6     AND department_id IN (20, 50)
7 ORDER BY last_name ASC;
8
```
- Result Tab:** Labeled "Results".
- Other Tabs:** Explain, Describe, Saved SQL, History.
- Output Area:** Shows the message "no data found".

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

The screenshot shows a MySQL command-line interface window. At the top, there are several icons: a left arrow, a right arrow, a search icon, a wrench icon, and a help icon. Below the icons, the SQL query is displayed:

```
1 SELECT last_name
2 FROM employees
3 WHERE manager_id IS NULL;
4
```

Below the query, there is a navigation bar with tabs: Results (which is selected), Explain, Describe, Saved SQL, and History. The main area below the navigation bar displays the results of the query:

LAST_NAME
Doe

At the bottom of the results area, it says "1 rows returned in 0.00 seconds". There is also a "Download" button.

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

The screenshot shows a SQL query editor with the following details:

- Toolbar:** Includes icons for refresh, copy, search, and paste.
- Query Area:** Contains the following SQL code:

```
1  SELECT last_name, hire_date
2  FROM employees
3  WHERE EXTRACT(YEAR FROM hire_date) = 2021;
4
```
- Results Tab:** The "Results" tab is selected, showing the output of the query.
- Table Output:** The results are presented in a table with two columns:

LAST_NAME	HIRE_DATE
Johnson	7/1/2021
- Timing:** The message "rows returned in 0.00 seconds" is displayed at the bottom left.
- Download:** A "Download" link is located at the bottom center.