

Lab - 1

SQL query based on Restricting and Sorting Data

1. Write a query in SQL to display the full name (first and last name), and salary for those employees who earn below 6000.

QUERY

```
SELECT first_name, last_name, salary
FROM employees
WHERE salary < 6000;
```

OUTPUT

FIRST_NAME	LAST_NAME	SALARY
David	Austin	4800
Valli	Pataballa	4800
Diana	Lorentz	4200
Alexander	Khoo	3100
Shelli	Baida	2900
Sigal	Tobias	2800

2. Write a query in SQL to display the first and last_name, department number and salary for those employees who earn more than 8000.

QUERY

```
SELECT first_name, last_name, salary, department_id
FROM employees
WHERE salary > 8000;
```

OUTPUT

FIRST_NAME	LAST_NAME	SALARY	DEPARTMENT_ID
Steven	King	24000	90
Neena	Kochhar	17000	90
Lex	De Haan	17000	90
Alexander	Hunold	9000	60
Nancy	Greenberg	12000	100
Daniel	Faviet	9000	100

3. Write a query in SQL to display the first and last name, and department number for all employees whose last name is “McEwen”.

QUERY

```
SELECT first_name, last_name, salary,
department_id
FROM employees
WHERE last_name = 'McEwen';
```

FIRST_NAME	LAST_NAME	SALARY	DEPARTMENT_ID
Allan	McEwen	9000	80

4. Write a query in SQL to display all the information for all employees without any department number.

QUERY

```
SELECT first_name, last_name, salary,
       department_id
FROM employees
WHERE department_id IS NULL;
```

FIRST_NAME	LAST_NAME	SALARY	DEPARTMENT_ID
Kimberely	Grant	7000	-

5. Write a query in SQL to display all the information about the department Marketing.

QUERY

```
SELECT *
FROM departments
WHERE department_name = 'Marketing';
```

DEPARTMENT_ID	DEPARTMENT_NAME	MANAGER_ID	LOCATION_ID
20	Marketing	201	1800

6. Write a query in SQL to display the full name (first and last), hire date, salary, and department number for those employees whose first name does not containing the letter M and make the result set in ascending order by department number.

QUERY

```
SELECT first_name, last_name, salary, hire_date, department_id
FROM employees
WHERE first_name NOT LIKE '%M%'
ORDER BY department_id
```

OUTPUT

FIRST_NAME	LAST_NAME	SALARY	HIRE_DATE	DEPARTMENT_ID
Jennifer	Whalen	4400	17-SEP-87	10
Pat	Fay	6000	17-AUG-97	20
Den	Raphaely	11000	07-DEC-94	30
Alexander	Khoo	3100	18-MAY-95	30
Shelli	Baida	2900	24-DEC-97	30
Sigal	Tobias	2800	24-JUL-97	30
Guy	Himuro	2600	15-NOV-98	30

7. Write a query in SQL to display all the information of employees whose salary is in the range of 8000 and 12000 and commission is not null or department number is except the number 40, 120 and 70 and they have been hired before June 5th, 1987.

QUERY SELECT *
 FROM employees
 WHERE salary BETWEEN 8000 AND 12000
 AND (commission_pct IS NOT NULL OR department_id NOT IN
 (40,70,120))
 AND hire_date < '05-jun-87';

OUTPUT no data found

8. Write a query in SQL to display the full name (first and last name), and salary for all employees who does not earn any commission.

QUERY SELECT first_name, last_name, salary
 FROM employees
 WHERE commission_pct is NULL;

OUTPUT

FIRST_NAME	LAST_NAME	SALARY
Steven	King	24000
Neena	Kochhar	17000
Lex	De Haan	17000
Alexander	Hunold	9000
Bruce	Ernst	6000
David	Austin	4800

9. Write a query in SQL to display the full name (first and last), the phone number and email separated by hyphen, and salary, for those employees whose salary is within the range of 9000 and 17000. The column headings assign with Full_Name, Contact_Details and Remuneration respectively.

QUERY SELECT first_name || ' ' || last_name AS full_name, phone_number || '-' || email AS
 contact_details, salary AS remuneration
 FROM employees
 WHERE salary BETWEEN 9000 AND 17000;

OUTPUT

FULL_NAME	CONTACT_DETAILS	REMUNERATION
Neena Kochhar	515.123.4568-NKochhar	17000
Lex De Haan	515.123.4569-LDEHAAN	17000
Alexander Hunold	590.423.4567-AHUNOLD	9000
Nancy Greenberg	515.124.4569-NGREENBE	12000
Daniel Faviet	515.124.4169-DFAVIET	9000
Den Raphaely	515.127.4561-DRAPHEAL	11000

10. Write a query in SQL to display the first and last name, and salary for those employees whose first name is ending with the letter m.

QUERY

```
SELECT first_name, last_name
FROM employees
WHERE first_name LIKE '%m';
```

OUTPUT

FIRST_NAME	LAST_NAME
Adam	Fripp
William	Gietz
Payam	Kaufling
William	Smith