

EXERCISE-5

Restricting and Sorting data

Find the Solution for the following:

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

```
SELECT last_name, salary FROM employees WHERE salary > 12000;
```

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

```
SELECT last_name, department_id
```

```
FROM employees
```

```
WHERE employee_id = 176;
```

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)

```
SELECT last_name, salary
```

```
FROM employees
```

```
WHERE salary NOT BETWEEN 5000 AND 12000;
```

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)

```
SELECT last_name, job_id, hire_date
```

```
FROM employees
```

```
WHERE hire_date BETWEEN '1998-02-20' AND '1998-05-01'
```

```
ORDER BY hire_date ASC;
```

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

```
SELECT last_name, department_id
```

```
FROM employees
```

```
WHERE department_id IN (20, 50)
```

```
ORDER BY last_name;
```

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)

```
SELECT last_name AS EMPLOYEE, salary AS "MONTHLY SALARY"
FROM employees
WHERE salary BETWEEN 5000 AND 12000 AND department_id IN (20, 50)
ORDER BY last_name;
```

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

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

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

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

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)

```
SELECT last_name, salary, commission_pct
FROM employees
WHERE commission_pct IS NOT NULL
ORDER BY salary DESC, commission_pct DESC;
```

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

```
SELECT last_name
FROM employees
WHERE last_name LIKE '__a%';
```

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

```
SELECT last_name FROM employees
WHERE last_name LIKE '%a%' AND last_name LIKE '%e%';
```

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)

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

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

```
SELECT last_name, salary, commission_pct  
FROM employees  
WHERE commission_pct = 0.20;
```

Practice Questions

Sorting rows

1. In the example below, assign the employee_id column the alias of "Number." Complete the SQL statement to order the result set by the column alias.

```
SELECT employee_id, first_name, last_name FROM employees;
```

```
SELECT employee_id AS "Number", first_name, last_name FROM employees ORDER BY "Number";
```

2. Create a query that will return all the DJs on Demand CD titles ordered by year with titles in alphabetical order by year.

```
SELECT title FROM d_cds ORDER BY year, title;
```

3. Order the DJs on Demand songs by descending title. Use the alias "Our Collection" for the song title.

```
SELECT song_title AS "Our Collection" FROM d_songs ORDER BY "Our Collection" DESC;
```

4. Write a SQL statement using the ORDER BY clause that could retrieve the information needed.

```
SELECT employee_id, first_name, last_name, hire_date FROM employees ORDER BY last_name ASC,  
hire_date DESC;
```