**Assignment 2:**

**Restricting and Sorting Data**

*The HR department needs your assistance with creating some queries.*

*1. Because of budget issues, the HR department needs a report that displays the last name and salary of employees who earn more than $12,000.*

Solution:

select last\_name,salary from employees where salary>12000;

*2. Create a report that displays the last name and department number for employee 176.*

Solution:

select last\_name from employees where department\_id=176;

*3. The HR department needs to find high-salary and low-salary employees. Write a query to display the last name and salary for any employee whose salary is not in the $5,000–$12,000 range.*

Solution:

select last\_name, salary from employees

where salary not between 5000 and 12000;

4. *Create a report to display the last name, job ID, and start date for the employees whose last names are Matos and Taylor. Order the query in ascending order by start date.*

Solution:

select last\_name,job\_id,start\_date from employees

where last\_name='Taylor' or last\_name='Matos'

order by start\_date asc;

5. *Display the last name and department number of all employees in departments 20 or 50 in ascending alphabetical order by name.*

Solution:

select last\_name,department\_id from employees

where department\_id in(20,50)

order by last\_name asc;

6. *Write a query to display the last name and salary of employees who earn between $5,000 and $12,000, and are in department 20 or 50. Label the columns Employee and Monthly Salary, respectively.*

Solution: select last\_name as Employee, salary as "Monthly Salary" from employees

where salary between 5000 and 12000

and department\_id in (20,50);

7. *The HR department needs a report that displays the last name and hire date for all employees who were hired in 1994.*

Solution:

select last\_name,hire\_date from employees

where hire\_date like '%94';

8. *Create a report to display the last name and job title of all employees who do not have a manager.*

Solution:

select first\_name,last\_name,job\_id from employees

where manager\_id=0 or manager\_id is null;

OR

select first\_name,last\_name,job\_id from employees

where manager\_id is null;

9. *Create a report to display the last name, salary, and commission of all employees who earn commissions. Sort the data in descending order of salary and commissions.*

Solution:

select last\_name,salary,commission\_pct from employees

where commission\_pct is not null

order by salary,commission\_pct;

OR

select last\_name,salary,commission\_pct from employees

where commission\_pct>0

order by salary,commission\_pct desc;

10. *The HR department wants to run reports based on a manager.*

*Create a query for the following managers and generates the employee ID, last name, salary, and department for that manager’s employees.*

*The HR department wants the ability to sort the report on a selected column.*

*You can test the data with the following values:*

manager ID = 103, sorted by employee last name:

Solution:

select employee\_id,last\_name,salary,department\_id from employees

where manager\_id=103 order by last\_name ;

manager ID = 201, sorted by salary:

select employee\_id,last\_name,salary,department\_id from employees

where manager\_id=201 order by salary;

manager ID = 124, sorted by employee ID:

select employee\_id,last\_name,salary,department\_id from employees

where manager\_id=124 order by employee\_id;

11. *Display all employee last names in which the third letter of the name is “a.”*

Solution: select last\_name from employees

where last\_name like '\_\_a%';

12. *Display the last names of all employees who have both an a and an e in their last name.*

Solution: select last\_name from employees

  where last\_name like '%a%' and last\_name like '%e%';

13. *Display the last name, job, and salary for all employees whose jobs are either that of a sales representative or a stock clerk, and whose salaries are not equal to $2,500, $3,500, or $7,000.*

Solution:

select last\_name,job\_id,salary

from employees

where job\_id in ('SA\_REP', 'ST\_CLERK')

and salary not in (2500,3500,7000);

14. *Create a query to display the last name, salary, and commission for all employees whose commission amount is 20%.*

Solution:

select last\_name,salary,commission\_pct from employees

where commission\_pct=0.2;