

Oracle SQL Assignment Answers

1. **Basic SELECT Query**

- Write an SQL query to retrieve all columns from the `employees` table.

Ans - SELECT * FROM employees;

2. **Filtering Data**

- Write an SQL query to find all employees who are working in the "Sales" department.

Ans - SELECT * FROM employees

WHERE department = 'Sales';

3. **Sorting Data**

- Write an SQL query to get the names and salaries of employees in the "Marketing" department, sorted by their salaries in descending order.

Ans – SELECT name, salary FROM employees

WHERE department = 'Marketing'

ORDER BY salary DESC;

4. **Using Aggregate Functions**

- Write an SQL query to calculate the average salary of employees in the "HR" department.

Ans - SELECT AVG(salary) AS average_salary

FROM employees

WHERE department = 'HR';

5. **Group By Clause**

- Write an SQL query to find the total number of employees in each department.

**Ans - SELECT department, COUNT(*) AS total_employees
FROM employees
GROUP BY department;**

6. **Using DISTINCT**

- Write an SQL query to list all unique job titles from the `employees` table.

**Ans - SELECT DISTINCT job_title
FROM employees;**

7. **Using LIKE Operator**

- Write an SQL query to retrieve all employees whose names start with the letter "J".

**Ans - SELECT * FROM employees
WHERE name LIKE 'J%';**

8. **Using AND/OR Conditions**

- Write an SQL query to find employees who are either in the "IT" department or have a salary greater than \$50,000.

**Ans - SELECT * FROM employees
WHERE department = 'IT' OR salary > 50000;**

9. **Joining Tables (Inner Join)**

- Write an SQL query to display employee names along with their department names by joining the `employees` and `departments` tables.

**Ans - SELECT employees.name, departments.department_name
FROM employees
INNER JOIN departments ON employees.department_id =
departments.department_id;**

10. **Joining Tables (Left Join)**

- Write an SQL query to display all employees and their department names, including those employees who are not assigned to any department.

**Ans- SELECT employees.name, departments.department_name
FROM employees
LEFT JOIN departments ON employees.department_id =
departments.department_id;**

11. **Subqueries**

- Write an SQL query to find employees whose salary is greater than the average salary in the `employees` table.

**Ans - SELECT * FROM employees
WHERE salary > (SELECT AVG(salary) FROM employees);**

12. **Using IN Operator**

- Write an SQL query to list all employees who belong to the departments "Sales", "Marketing", or "HR".

**Ans - SELECT * FROM employees
WHERE department IN ('Sales', 'Marketing', 'HR');**

13. **Using BETWEEN Operator**

- Write an SQL query to find employees whose salaries are between \$40,000 and \$60,000.

**Ans - SELECT * FROM employees
WHERE salary BETWEEN 40000 AND 60000;**

14. **Using EXISTS**

- Write an SQL query to find departments that have at least one employee with a salary greater than \$70,000.

Ans - SELECT DISTINCT department
FROM employees
WHERE EXISTS (
 SELECT 1
 FROM employees e
 WHERE e.department = employees.department AND e.salary > 70000
);

15. **Date Functions**

- Write an SQL query to find all employees who joined after January 1, 2020.

Ans - SELECT * FROM employees
WHERE joining_date > TO_DATE('2022-12-18', 'YYYY-MM-DD');

16. **Updating Data**

- Write an SQL query to increase the salary of all employees in the "IT" department by 10%.

Ans - UPDATE employees
SET salary = salary * 1.10
WHERE department = 'IT';

17. **Deleting Data**

- Write an SQL query to delete all employees who are no longer with the company.

Ans - DELETE FROM employees
WHERE employment_status = 'Inactive';

18. **Creating a Table**

- Write an SQL query to create a table called `customers` with columns `customer_id`, `first_name`, `last_name`, `email`, and `phone_number`.

Ans - CREATE TABLE customers (
 customer_id INT PRIMARY KEY,
 first_name VARCHAR2(50),
 last_name VARCHAR2(50),
 email VARCHAR2(100),
 phone_number VARCHAR2(20)
);

19. **Modifying a Table (ALTER)**

- Write an SQL query to add a new column `hire_date` to the `employees` table.

Ans - ALTER TABLE employees
ADD hire_date DATE;

20. **Dropping a Table**

- Write an SQL query to drop the `temporary_employees` table if it exists.

Ans - DROP TABLE temporary_employees;