✓ ASSIGNMENT NO 1

- 1. What is the ceiling value of 54.6799?
- → SELECT CEIL(54.6799) AS ceil_value FROM DUAL; -- Output: 55
- 2. If we want to sort salaries in descending order according to column position what will be the query?
- → SELECT * FROM employees ORDER BY 2 DESC;
- 3. What are wild characters?
- → Wild characters are used in SQL for pattern matching in LIKE statements:
 - 1. SELECT * FROM employees WHERE first_name LIKE 'A%';
 - 2. SELECT * FROM employees WHERE first_name LIKE 'J_n';
- 4. What is a dual table?
- → SELECT SYSDATE FROM DUAL;
- 5. Which operator would you use to combine the data of two columns in one single column?
- → SELECT first_name || ' ' || last_name AS full_name FROM employees;
- 6. How many are character manipulation functions?
- → UPPER, LOWER, INITCAP, LENGTH, SUBSTR, TRIM, LTRIM, RTRIM, INSTR, REPLACE, CONCAT.
- 7. Which data types are available in SQL?
- → i. CHAR ii. DECIMAL iii. DATE Iv. VARCHAR
- 8. What is a NULL value?
- → NULL is a placeholder representing missing or undefined values in a database.
- 9. Display first_name of all employees who start with 'A', 'D', and'M'.
- → SELECT first_name FROM employees WHERE SUBSTR(first_name, 1, 1) IN ('A', 'D', 'M');
- 10. Write a query to display a unique job_id from the employee's table.
- → SELECT DISTINCT job_id FROM employees;
- 11. Display the first, job and salary for all employees whose job is a salesman or clerk whose salary is not equal to \$2,500,\$3500, or \$7000.
- → SELECT first_name, job, salary FROM employees WHERE job IN ('SALESMAN', 'CLERK') AND salary NOT IN (2500, 3500, 7000);
- 12. Display sysdate in the format 'MONDAY,01 JUNE,2001'.
- → SELECT TO_CHAR(SYSDATE, 'DAY, DD MONTH, YYYY') AS formatted_date FROM DUAL;
- 13. What is the position of the second '3' in the following string '1245378783'.
- → SELECT INSTR('1245378783', '3', 1, 2) AS position_of_second_3 FROM DUAL;
 -- Output: 9
- 14. What is the output of ROUND(TRUNCATE (MOD (1600, 10), 1), 2)?
- → MOD(1600, 10) = 0. TRUNCATE(0, 1) = 0. ROUND(0, 2) = 0. Output: 0

- 15. What will be the output of SELECT LTRIM (RTRIM ('!!*ATHEN*!!', '!'), '!') FROM DUAL;
- → SELECT LTRIM(RTRIM("!!*ATHEN*!!", "!"), "!") AS trimmed string FROM DUAL; Output: "*ATHEN*"
- 16. For each employee, display the employee's last name, and calculate the number of months between today and
- → the date the employee was hired. SELECT last_name, MONTHS_BETWEEN(SYSDATE, hire_date) AS months_since_hired FROM employees;
- 17. Write a query to extract the YEAR from the HIRE_DATE column of the EMPLOYEES table for those employees
- → who work in department 10. SELECT EXTRACT(YEAR FROM hire_date) AS hire_year FROM employees WHERE department id = 10;
- 18. Write a SQL statement to find the length of the first_name, and the numeric position of the letter "a" in the first_name column and those employees whose first_name ends with a letter "n"?
- → SELECT first_name, LENGTH(first_name) AS name_length, INSTR(first_name, 'a') AS position_of_a FROM employees WHERE first_name LIKE '%n';
- 19. Select unique records from employees tables
- → SELECT DISTINCT * FROM employees;
- 20. Display the first_name, last_name, salary, job_id from employee Whose salary is between 10000.15000.
- → SELECT first_name, last_name, salary, job_id FROM employees WHERE salary BETWEEN 10000 AND 15000;
- 21. Display the records of employees whose department_id is 90,70,50
- → SELECT * FROM employees WHERE department id IN (90, 70, 50);
- 22. Display all records of employees whose name start with A and d at third position from last.
- → SELECT * FROM employees
 WHERE first_name LIKE 'A%' AND SUBSTR(first_name, -3, 1) = 'd';
- 23. Sort the employees table according to hire_date.
- → SELECT * FROM employees ORDER BY hire_date;
- 24. Select all records from the departments table.
- → SELECT * FROM departments;
- 25. Display date after 3 days of hire_date.
- → SELECT hire_date + 3 AS date_after_3_days FROM employees;
- 26. Concat first_name ,last_name department_id
- → SELECT first_name || ' ' || last_name || ' ' || department_id AS full_info FROM employees;
- 27. Output in form :Steven King has a department_id 90
- → SELECT first_name || ' ' || last_name || ' has a department_id ' || department_id AS "Output" FROM employees WHERE first_name = 'Steven' AND last_name = 'King';