Assessment 1 on PostgreSQL Database Dt: 27-02-2023

Max Marks: 45Marks

1. Write a query to list the employees who are earning more than their managers using self-join  **(3M)**
2. Write a query to list all the employees who are earning more than every employee in 10th Department. Exclude the employees who have joined in 2020, 2021 & 2022. **(3M)**
3. Write create table syntax to create EMP table with the following constraints  **(4M)**

A. Primary key on empno at column level

B. Foreign key on mgrno at column level referring Emp(empno)

C. Foreign key on deptno at table level referring dept(deptno)

D. Check constraint on Sal at table level with the condition to allow the salaries only between 5000 and 10000

1. Write a query to list the departments that are having either 2 CLERKs or 3 Managers. **(3M)**
2. Write a query to list the departments that are having their total salary more than the total salary of all ‘MANAGER’s in company  **(3M)**
3. Write a query to list the departments along with their average salary, minimum salary, max salary and no of employees. Exclude any department that Is having less than 2 employees and avg salary less than 2000. **(3M)**
4. . Write a query to list the lowest paid employee in each department. **(3M)**
5. Write a query to list the departments that are having at least 4 employees with the minimum salary of 3000. **(3M)**
6. Write a query to list the employee who is getting the highest salary among all, but exclude the employee is he/she is getting less than 10000. **(3M)**
7. Write a query to list the departments that are having their average salary more than 30th dept avg salary. Exclude the departments that are having less than 2 employees. **(4M)**
8. Explain the importance of ACID Properties with real time examples  **(6M)**
9. Write a query to list the year in which highest number of clerks have been joined

**(2M)**

**13.** Explain about Integrity Constraints and its types in SQL with examples **(5M)**