**Database Administration & Management**

**Assignment 1**

**BSIT-7**

**Submission date:- Monday , 16st November 2023**

Note:- Solve your assignment with your own handwriting and submit it to your class CR before the above mentioned date. Answers to the assignment will be provided after 16th November 2023 and there will be no submission after answers are given.

You are given following schema of three tables EMP, DEPT, SALGRADE

EMP:- Empno, Ename, Sal, Comm, Hiredate, Job, Mgr, Deptno

DEPT:- Deptno, Dname, Loc

SALGRADE:- Grade, Losal, Hisal

Write SQL statements for the following tasks.

1. Format the output of query like

The employee Scott has been working in department 20 as a clerk.

1. Display the employee number, name, salary of all those employees whose annual salary is greater than 10000 and whose name ends with letter R or M.
2. Display name, job, manager and hiredate of all those employees having a manager, with no commission and were hired in the year 1981.
3. Display name, hiring date, years of experience of all the employees having salaries greater than 2000.
4. Display name, hiredate and day of the week on which the employee started. Sort the result by the day of the week starting with Tuesday.
5. Display name, salary, department, department name, location of all employees who earn the commission.
6. Display the number of employees in each department in decreasing order of the total employees.
7. Display the number of jobs of each category in different departments and arrange the result on job category.
8. Create a table Student with five columns of your own choice with different integrity constraints. Use data dictionary views to display the constraint type with each column.
9. Write a SQL command to remove a column from the table Student you created above.
10. Write SQL command to increase 1000 in the salary of those employees whose salary is less than 2000.
11. Add a new column PP\_No to the existing table Student and apply Unique constraint on this column.
12. Create view Student\_vw using Student table with all the columns such that no DML command can be executed on base table Student using this view.
13. Display name, salary and grade of each employee from the given schema.
14. Create a new table EMP\_NEW from the existing table EMP consisting of only Empno, Ename , Job and Hiredate columns for only employees who are CLERK.
15. Enter three records into EMP\_NEW table using concept of substitution variables. Make these records permanent in the database.
16. Change value of Job from CLERK to ASSISTANT in EMP\_NEW table.
17. Remove all the records from the EMP\_NEW table which do not belong to deptno 10 and 20.
18. Create an index NEW\_IDX on JOB column of the EMP table. Make use of the index NEW\_IDX in your query.
19. Write a SQL command to create a sequence SEQ\_123 for automatic generation of numbers from 10 to 20 with an increase of 2. Display numbers generated by SEQ\_123 on the screen.
20. Write a SQL command to create a new user STUDENT with the password ALPHA. Assign DBA role to this new user.
21. You have created a constraint EMP\_JOB\_NV on the table EMP. You need to delete this constraint. Write a SQL command for this.
22. Create all the schema of Scott with the help of UTLSAMPL.SQL script file.
23. Display the employee number, manager number and manager name of each employee who are working as MANAGER.
24. Write a SQL command to deny object privilege Select related to EMP table from the user Alpha.