Name: Fahim Mahmud Bhuiyan

ID: 20-42970-1

Section: G

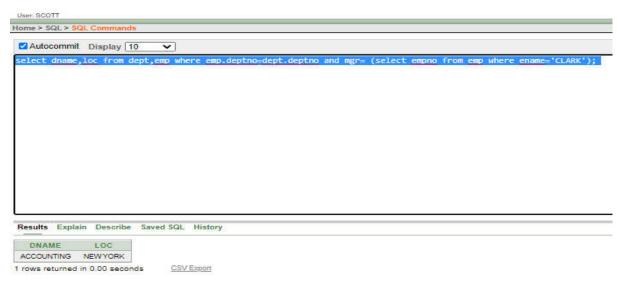
Introduction to Database

Date: 25/11/2020

Lab Task 1

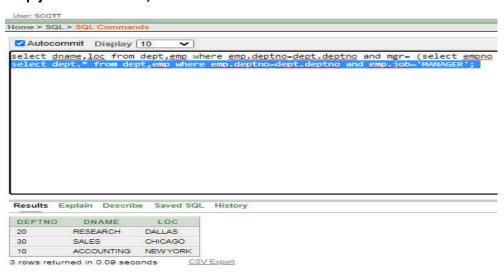
1) Select department name & location of all the employees working for CLARK.

Query: select dname,loc from dept,emp where emp.deptno=dept.deptno and mgr= (select empno from emp where ename='CLARK');



2) Select all the departmental information for all the managers.

Query: select dept.* from dept,emp where emp.deptno=dept.deptno and emp.job='MANAGER';



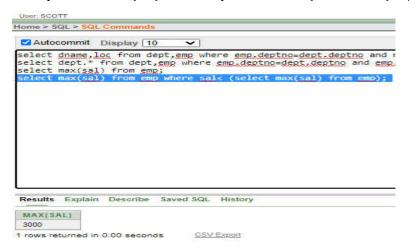
3) Display the first maximum salary.

Query: select max(sal) from emp;



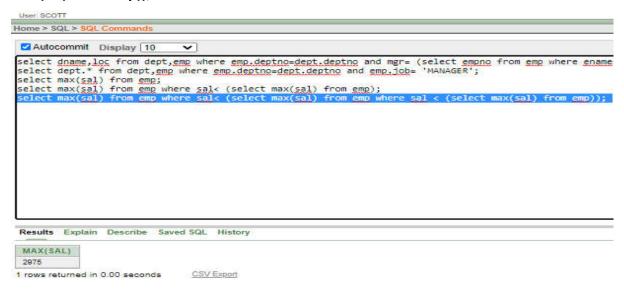
4) Display the second maximum salary.

Query: select max(sal) from emp where sal< (select max(sal) from emp);

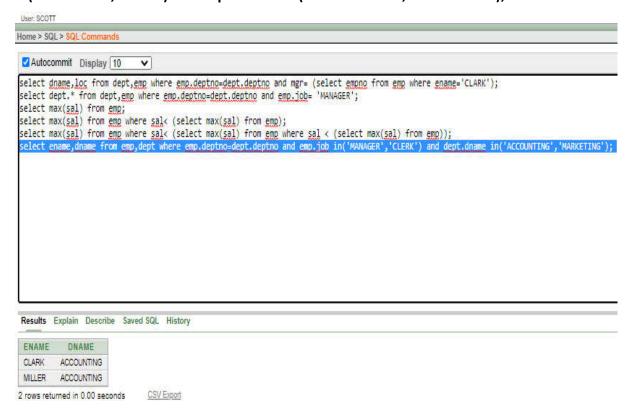


5) Display the third maximum salary.

Query: select max(sal) from emp where sal< (select max(sal) from emp where sal< (select max(sal) from emp));

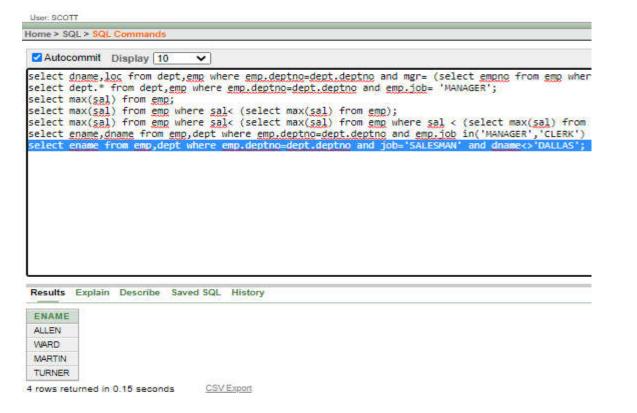


6) Display all the managers & clerks who work in Accounts and Marketing departments. Query: select ename,dname from emp,dept where emp.deptno=dept.deptno and emp.job in('MANAGER','CLERK') and dept.dname in('ACCOUNTING','MARKETING');



7) Display all the salesmen who are not located at DALLAS.

Query: select ename from emp,dept where emp.deptno=dept.deptno and job='SALESMAN' and dname<>'DALLAS';

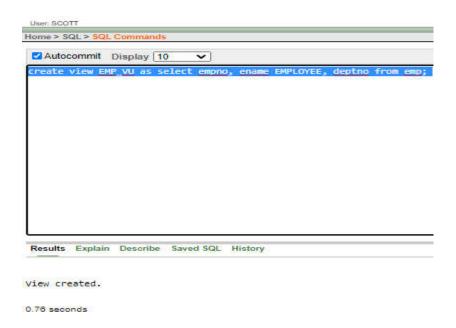


Date: 09/12/2020

Lab Task 2

1) Create a view called **EMP_VU** based on the employee number, employee name, and department number from the EMP table. Change the heading for the employee name to EMPLOYEE.

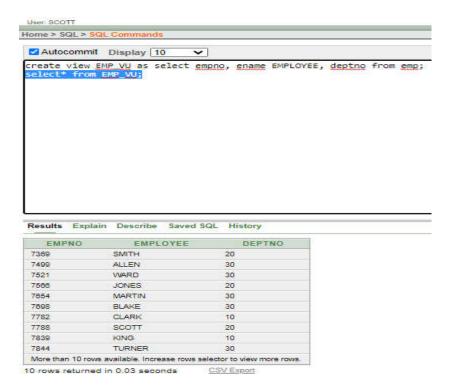
Query: create view EMP_VU as select empno, ename EMPLOYEE, deptno from emp;



2) Display the contents of the EMP_VU view. EMPNO EMPLOYEE DEPTNO

7839 KING	10
7698 BLAKE	30
7782 CLARK	10
7566 JONES	20
7654 MARTIN	30
7499 ALLEN	30
7844 TURNER	30
7900 JAMES	30
7521 WARD	30
7902 FORD	20
7369 SMITH	20
7788 SCOTT	20
7876 ADAMS 20	
7934 MILLER	10

Query: select* from EMP_VU;

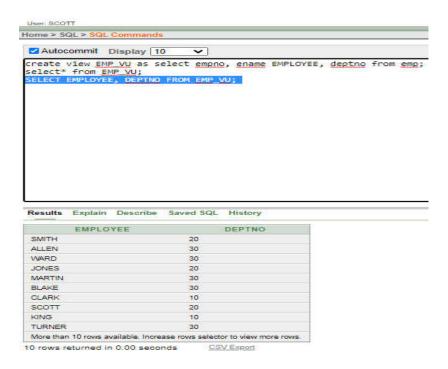


3) using your view EMP_VU, enter a query to display all employee names and department numbers.

EMPLOYEE DEPTNO

KING 10 BLAKE 30 CLARK 10

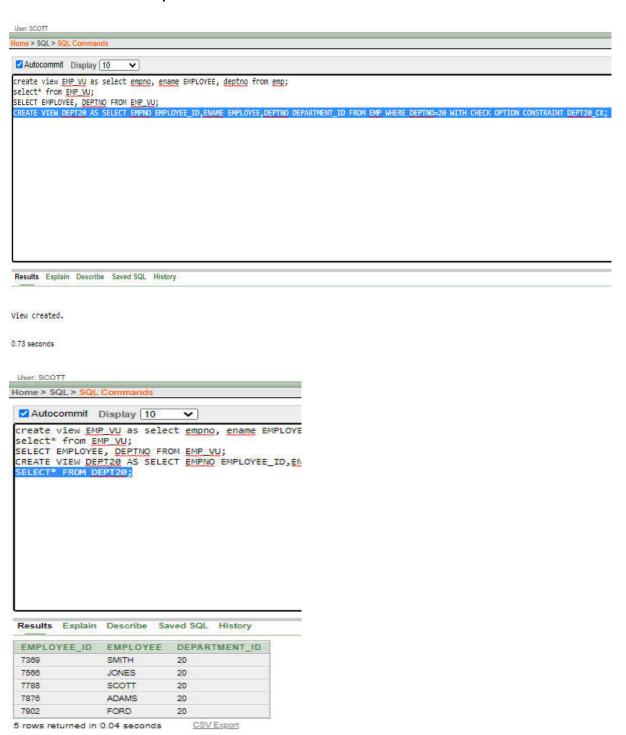
Query: SELECT EMPLOYEE, DEPTNO FROM EMP_VU;



4) Create a view named **DEPT20** that contains the employee number, employee name, and department number for all employees in department 20. Label the view column EMPLOYEE_ID, EMPLOYEE, and DEPARTMENT_ID. Do not allow an employee to be reassigned to another department through the view.

Query: CREATE VIEW DEPT20 AS SELECT EMPNO EMPLOYEE_ID,ENAME EMPLOYEE,DEPTNO DEPARTMENT_ID FROM EMP WHERE DEPTNO=20 WITH CHECK OPTION CONSTRAINT DEPT20_CK;

SELECT* FROM DEPT20;

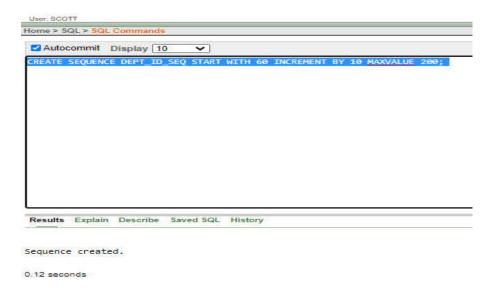


Date: 14/12/2020

Lab Task 3

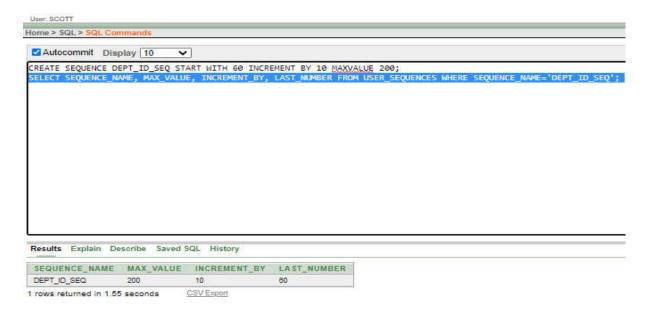
1) Create a sequence to be used with the primary key column of the DEPARTMENT table. The sequence should start at 60 and have a maximum value of 200. Have your sequence increment by ten numbers. Name the sequence DEPT_ID_SEQ.

Query: CREATE SEQUENCE DEPT_ID_SEQ START WITH 60 INCREMENT BY 10 MAXVALUE 200;



2) Write a script to display the following information about your sequences: sequence name, maximum value, increment size, and last number.

Query: SELECT SEQUENCE_NAME, MAX_VALUE, INCREMENT_BY, LAST_NUMBER FROM USER_SEQUENCES WHERE SEQUENCE_NAME='DEPT_ID_SEQ';



3) Create a user Rahul with the password ret23erz.

Query: CREATE USER Rahul IDENTIFIED BY ret23erz;



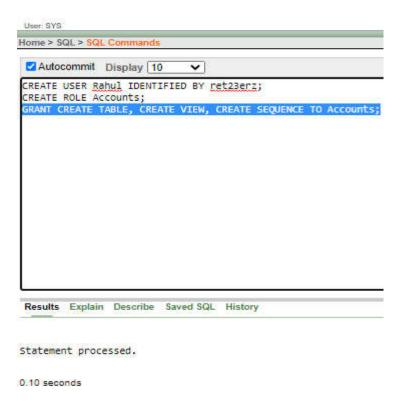
4) Create a new role Accounts.

Query: CREATE ROLE Accounts;



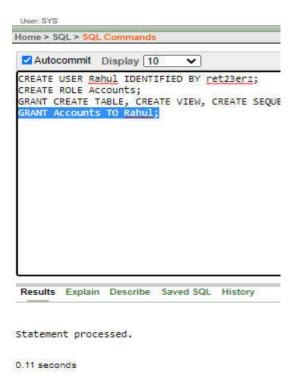
5) Grant system privileges create table, view and sequence to role Accounts.

Query: GRANT CREATE TABLE, CREATE VIEW, CREATE SEQUENCE TO Accounts;



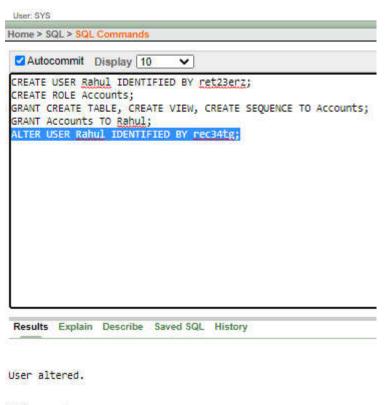
6) Assign role Accounts to Rahul.

Query: GRANT Accounts TO Rahul;



7) Change password of Rahul with the new password rec34tg.

Query: ALTER USER Rahul IDENTIFIED BY rec34tg;



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