AIM:-

User management

- 1. Create user
- 2. Privileges to user
- 3. DCL(grant/revoke)
- 4. Connect
- 5. Normal user interaction
- 6. Multi-tasking over local and remote system

THEORY:

- DDL COMMANDS DDL or Data Definition Language actually consists of the SQL commands that can be used to define the database schema. It simply deals with descriptions of the database schema and is used to create and modify the structure of database objects in the database.
 - 1. CREATE: This command is used to create the database or its objects (like table, index, function, views, store procedure, and triggers).
 - 2. DROP: This command is used to delete objects from the database.
 - 3. ALTER: This is used to alter the structure of the database.
- DML Commands The SQL commands that deals with the manipulation of data present in the
 database belong to DML or Data Manipulation Language and this includes most of the SQL
 statements. It is the component of the SQL statement that controls access to data and to the
 database. Basically, DCL statements are grouped with DML statements.
 - 1. INSERT: It is used to insert data into a table.
 - 2. UPDATE: It is used to update existing data within a table.
 - 3. DELETE: It is used to delete records from a database table.

QUERIES & RESULTS:

SQL> create user scott identified by tiger;

User created.

SQL> grant connect to scott;

Grant succeeded.

SQL> grant resource, unlimited tablespace, create any table to scott;

Grant succeeded.

SQL> connect

Enter user-name: scott

Enter password: *****

Connected.

SQL> create table student(student_name varchar2(20), roll_no varchar2(10), branch varchar2(20));

able created.

SQL> drop table student;

Table dropped.

AIM:-

Suppose you are working as a DBA in a company and a company gives the requirement for creating two users U1 and U2. Both users are working under DBA but U1 and U2 can give privileges to other normal users or each other on his schema regarding insert and view but not deletion of data. Your task is to implement this scenario in oracle database. Also create a table employee (id, name, address) in U1 and give permission to U2 for insert and select over this table. So whenever U2 to perform some updates, U1 and U2 can see it.

THEORY:

User Management - Management of users that were given access to the database is the sole responsibility of the user or users with the administrator role. The administrator has the responsibility to manage how other users in your organization access your database. For example, the administrator can add new users, block access to users who have left the organization, and help users who cannot log in. If we want to have more flexibility and fine-grained access control to our data warehouse, we can create and use our own user-defined user roles to accommodate the special needs of our organization.

QUERIES & RESULTS:

SQL> create user U1 identified by tiger;

User created.

SQL> grant connect to U1;

Grant succeeded.

SQL> grant unlimited tablespace, create any table to U1;

Grant succeeded.

SQL> create user U2 identified by tiger;

User created.

SQL> grant connect to U2;

Grant succeeded.

SQL> grant unlimited tablespace, create any table to U2;

Grant succeeded.

SQL>connect

Enter user-name: U1 Enter password:

Connected.

SQL>create table employee("id" int, "name" varchar2(20), "address" varchar2(30));

Table created.

SQL> grant select, insert, update on employee to U2;

Grant succeeded.

SQL> connect

Enter user-name:U2

Enter password: **

Connected.

SQL> insert into U1.employee values(48,'Deepak','Bihar'); 1 row created. SQL> select * from U1.employee; id name address 48 Deepak Bihar _____ SQL> connect Enter user-name: U1 Enter password: ** Connected. SQL> select * from employee; id name address 48 Deepak Bihar

Bhopal

10 Amit

AIM:-

- 1. Create a table STUDENT with the following schema, (student_id , first_name, middle_name, last_name, email_id, dob)
- 2. Add a new column: branch to the existing relation.
- 3. Change the datatype of student_id from char to varchar2.
- 4. Change the name of column/field first_name to stu_name
- 5. Modify the column width of the job last_name.
- 6. Rename the table from STUDENT to STUD_DATA
- 7. Drop the column email_id from the table.

THEORY:

DDL changes the structure of the table like creating a table, deleting a table, altering a table, etc. All the command of DDL are auto-committed that means it permanently save all the changes in the database. Here are some commands that come under DDL: CREATE, ALTER, DROP, TRUNCATE

OUERIES & RESULTS:

SQL> connect Enter

user-name: U1

Enter password: **

Connected.

SQL> create table student(student_id char(11), first_name varchar2(14),middle_name varchar2(15),last_name varchar2(19), email_id varchar2(31), dob varchar2(11));

Table created.

SQL> alter table student add branch varchar2(20);

Table altered.

SQL> alter table student modify student_id varchar2(20);

Table altered.

SQL>alter table student rename column first_name to stu_name;

Table altered.

SQL> alter table student modify last name varchar2(30);

Table altered.

SQL> alter table student rename to stud_data;

Table altered.

SQL> alter table stud_data drop column email_id;

Table altered.

AIM:-

- 1) Create a table employee with following schema, 'employee_no', 'employee_name', 'e_address', 'e_phone_no', 'dept_no', 'dept_name', 'job_id', 'email', 'salary'.
- 2) Write SQL Queries for the following questions"
 - 1.Insert atleast 5 rows in the table.
 - 2. Display all the information of employee table.
 - 3. Display record of each employee who works in dept 10.
 - 4. Update the 'city' of employee no 12 with current city as Nagpur.
 - 5. Display the details of Employee who works in department MECH.

Null? Type

- 6. Delete the 'email' of employee James.
- 7. Display the complete record of employee of employees working in sales dept.

QUERIES & RESULTS:

SQL> connect scott

Enter password: **

Connected.

SQL> create table employee(emp_no number(3),emp_name varchar(8),emp_add varchar(9),emp_ph number(10),dept_no number(3),dept_name varchar(5),job_id number(4),email varchar(18), salary number(5));

Table created.

Name

SQL> desc employee

EMP_NO	NUMBER(3)
EMP_NAME	VARCHAR2(8)
EMP_ADD	VARCHAR2(9)
EMP_PH	NUMBER(10)
DEPT_NO	NUMBER(3)
DEPT_NAME	VARCHAR2(5)
JOB_ID	NUMBER(4)
EMAIL	VARCHAR2(18)
SALARY	NUMBER(5)
1.	

Q 2. (i) Insert atleast 5 rows in the table.

SQL> insert into employee

values(&emp_no,'&emp_name','&emp_add',&emp_ph,&dept_no,'&dept_name',&job_id,'&email',&salary);

Enter value for emp_no: 1

Enter value for emp_name: Ankit Enter value for emp_add: Bihar Enter value for emp_ph: 0987654321

Enter value for dept_no: 11 Enter value for dept_name: Ex Enter value for job_id: 111

Enter value for email: ankit@gmail.com

Enter value for salary: 11000

old 1: insert into employee

values(&emp_no,'&emp_name','&emp_add',&emp_ph,&dept_no,'&dept_name',&job_id,'&email',&salar y)

new 1: insert into employee values(1,'Ankit','Bihar',0987654321,11,'Ex',111,'ankit@gmail.com',11000) 1 row created.

SQL> insert into

employee(emp_no,emp_name,emp_add,emp_ph,dept_no,dept_name,job_id,email,salary) values(1,'Deepak','Matasi',1234567890,22,'CSE',222,'deepak@gmail.com',12000); 2 row created.

SQL> insert into employee values(3,'Amit','Gaya','1234567811','10','CSE','333','amit@gmail.com',13000); 1 row created.

SQL> insert into employee

values(4, 'Suman', 'Gaya', '1234567291', '10', 'MECH', '444', 'suman@gmail.com', 14000); 1 row created.

SQL> insert into employee

values(12, 'Sumit', 'Gaya', '1534567291', '11', 'MECH', '122', 'sumit@gmail.com', 14000); 1 row created.

SQL> insert into employee

values(13, 'James', 'Jamui', '1534567291', '15', 'SALES', '555', 'james@gmail.com', 15000); 1 row created.

SQL> insert into employee

values(14,'rajesh','Jamui','1534544291','16','SALES','666','rajesh@gmail.com',10000); 1 row created.

Q 2. (ii) Display all the information of employee table.

SQL> select * from employee;

•	emp_name	1 2	*	dept_r	no dept_nar	ne job_i	d email	salary
1 2 3 4 12 13	Ankit Deepak Amit Suman Sumit James	Bihar Matasi Gaya Gaya Gaya Jamui	0987654321 1234567890 1234567811 1234567291 1534567291 1534567291	11 10 10 11	EX CSE CSE MECH MECH SALES	111 222 333 444 122 555	ankit@gmail.com deepak@gmail.com amit@gmail.com suman@gmail.com sumit@gmail.com james@gmail.com	10000 12000 13000 14000 14000 15000

14 SALES 666 rajesh@gmail.com 10000 Rajesh Jamui 1534544291 16 Q 2. (iii) Display record of each employee who works in dept 10. SQL> select * from employee where dept_no=10; dept_no dept_name job_id email emp_no emp_name emp_add emp_ph salary -----3 1234567811 10 **CSE** 333 amit@gmail.com 13000 Amit Gaya 444 14000 4 Suman Gaya 1234567291 10 **MECH** suman@gmail.com Q 2. (iv) Update the 'city' of employee no 12 with current city as Nagpur. SQL> update employee set emp_add='Nagpur' where emp_no=12; 1 row updated. SQL> select * from employee where emp_no=12; emp_no emp_name emp_add emp_ph dept_no dept_name job_id email salary 12 122 14000 Nagpur 1534567291 11 MECH sumit@gmail.com Sumit Q 2. (v) Display the details of Employee who works in department MECH SQL> select * from employee where dept_name='MECH'; emp_no emp_name emp_add emp_ph dept_no dept_name job_id email salary -----4 444 14000 Suman Gaya 1234567291 10 MECH suman@gmail.com 12 Sumit Nagpur 1534567291 11 MECH 122 sumit@gmail.com 14000 Q 2. (vi) Delete the 'email' of employee James. SQL> update employee set email=" where emp_no=13; 1 row updated. SQL> select * from employee where emp_no='13'; dept_no dept_name job_id email emp_no emp_name emp_add emp_ph salary _____ 13 1534567291 15 SALES 15000 James Jamui 555 Q 2. (vii) Display the complete record of employee of employees working in sales dept. SQL> select * from employee where dept_name='SALES'; emp_no emp_name emp_add emp_ph dept_no dept_name job_id email salary 13 Jamui 1534567291 15 SALES 555 15000 James 14 Rajesh Jamui 1534544291 16 SALES 666 rajesh@gmail.com 10000

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