**Day 4**

**Assignments**

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.**

create sequence dept\_id\_seq

start with 1

maxvalue 200

increment by 1

nocache;

insert into department (id)

values (dept\_id\_seq.nextval);

1. **Create a non-unique index on the foreign key column (dept\_id) in the employee table.**

create index idx on employee(deptno);

1. **Display the indexes and uniqueness that exist in the data dictionary for the employee table.**

select INDEX\_NAME,UNIQUENESS from USER\_INDEXES

where table\_name='EMPLOYEE';

1. **Create new user “accountant” grant this user two system roles with minimum privileges to access the system. Display all users from data dictionary.**

create user accountant

IDENTIFIED BY 123;

grant CONNECT to accountant;

grant RESOURCE to accountant;

SELECT \* FROM all\_users;

1. **Create new DBA user “Admin” grant this user DBA role. Display system privileges assigned to user admin due to granting him DBA.**

create user admin

IDENTIFIED BY 123;

grant dba to admin;

select \* FROM DBA\_SYS\_PRIVS

where GRANTEE='ADMIN';

1. **Grant SCOTT the privilege to update data in the DEPARTMENTS table. You also want to enable SCOTT to grant this privilege to other users.**

create user scott identified by 123;

grant update on department to scott with grant option;

1. **Create public synonyms for the view that has been created in your previous lab. Display all synonyms which you have access privileges on it.**

create public SYNONYM syno

for emp\_vu;

select \* from ALL\_SYNONYMS

where table\_owner='MKS';

1. **Grant scott privilege to view records in REGIONS table in hr schema. Include an option for SCOTT user to further grant this privilege to other users. Connect as scott then grant accountant user the previous privilege then revoke the above privilege from scott. Test the previous revoke on accountant user.**

grant select on hr.regions to scott

with grant option;

grant create session to scott;

grant select on hr.regions to accountant;

revoke select on hr.regions from scott;

select \* from regions;

1. **Create role to view and do DML operations on EMP table in your schema, grant access on this role to all users. Check data dictionary view to display objects privileges assigned to this role.**

create role last4;

grant all on emp to last4;

grant last4 to public;

SELECT \* FROM dba\_tab\_privs WHERE grantee = 'LAST4';

SELECT \* FROM dba\_role\_privs WHERE grantee = 'LAST4';

SELECT \* FROM dba\_sys\_privs WHERE grantee = 'LAST4';