| Ex.no.: 16 | |
|---|---|
| **Date:** 01/11/2024 | **CONTROLLING USER ACCESS** |

**1. WHAT PRIVILEGE SHOULD A USER BE GIVEN TO LOG ON TO THE ORACLE SERVER? IS THIS A SYSTEMOR AN OBJECT PRIVILEGE?**

**THE PRIVILEGE A USER SHOULD BE GIVEN TO LOG ON TO THE ORACLE SERVER IS THE CREATESESSION PRIVILEGE.**

**TYPE OF PRIVILEGE: THIS IS A SYSTEM**

**PRIVILEGE.GRANT CREATE SESSION TO**

**USERNAME;**

**2. WHAT PRIVILEGE SHOULD A USER BE GIVEN TO CREATE TABLES?**

**THE USER NEEDS THE CREATE TABLE PRIVILEGE.**
**THE CREATE TABLE PRIVILEGE ALLOWS THE USER TO CREATE NEW TABLES IN THEIR OWN SCHEMA.**

**GRANT CREATE TABLE TO USERNAME;**

**3. IF YOU CREATE A TABLE, WHO CAN PASS ALONG PRIVILEGES TO OTHER USERS ON YOUR TABLE?**

**WHEN YOU CREATE A TABLE, ONLY YOU AS THE TABLE OWNER (OR A USER WITH THE ADMIN OPTIONOR GRANT ANY PRIVILEGE SYSTEM PRIVILEGE) CAN GRANT PRIVILEGES ON YOUR TABLE TO OTHERUSERS.**

**GRANT SELECT ON YOUR_TABLE TO OTHER_USER;**

**4. YOU ARE THE DBA. YOU ARE CREATING MANY USERS WHO REQUIRE THE SAME SYSTEMPRIVILEGES. WHAT SHOULD YOU USE TO MAKE YOUR JOB EASIER?**

AS A DBA, TO SIMPLIFY THE PROCESS OF GRANTING THE SAME SYSTEM PRIVILEGES TO MULTIPLEUSERS, YOU SHOULD USE ROLES.

CREATE ROLE MY_ROLE;

GRANT CREATE SESSION TO
MY_ROLE;GRANT CREATE TABLE TO
MY_ROLE;

GRANT MY_ROLE TO
USER1;GRANT MY_ROLE
TO USER2;

**5. WHAT COMMAND DO YOU USE TO CHANGE YOUR PASSWORD?**

ALTER USER USERNAME IDENTIFIED BY NEW_PASSWORD;

**6. GRANT ANOTHER USER ACCESS TO YOUR DEPARTMENTS TABLE. HAVE THE USER GRANT YOUQUERY ACCESS TO HIS OR HER DEPARTMENTS TABLE.**

GRANT ACCESS TO YOUR DEPARTMENTS TABLE

GRANT SELECT ON YOUR_USERNAME.DEPARTMENTS TO OTHER_USER;

GRANT QUERY ACCESS TO OTHER USER'S DEPARTMENTS TABLE

GRANT SELECT ON OTHER_USER.DEPARTMENTS TO YOUR_USERNAME;

**7. QUERY ALL THE ROWS IN YOUR DEPARTMENTS TABLE.**

SELECT * FROM DEPARTMENT;

**8. ADD A NEW ROW TO YOUR DEPARTMENTS TABLE. TEAM 1 SHOULD ADD EDUCATION AS DEPARTMENT NUMBER 500. TEAM 2 SHOULD ADD HUMAN RESOURCES DEPARTMENT NUMBER 510.QUERY THE OTHER TEAM'S TABLE.**

INSERT INTO DEPARTMENT(DEPT_ID, DEPT_NAME,MANAGER_ID,LOCATION_ID,COUNTRY_ID,MANAGER_NAME)VALUES (500, 'EDUCATION',300,12,'BAN','BALL');

INSERT INTO DEPARTMENT(DEPT_ID, DEPT_NAME,MANAGER_ID,LOCATION_ID,COUNTRY_ID,MANAGER_NAME)VALUES (510, 'HUMAN RESOURCES',150,10,'AUS','JOHN');

SELECT * FROM DEPARTMENT;

| | DEPT_ID | DEPT_NAME | MANAGER_ID | LOCATION_ID | COUNTRY_ID | MANAGER_NAME |
|---|---|---|---|---|---|---|
| | 510 | Human Resources | 150 | 10 | AUS | john |
| | 500 | Education | 300 | 12 | BAN | ball |

**9. QUERY THE USER_TABLES DATA DICTIONARY TO SEE INFORMATION ABOUT THE TABLES THAT YOUOWN.**

SELECT * FROM USER_TABLES;

| TABLE_NAME | TABLESPACE_NAME | CLUSTER_NAME | IOT_NAME | STATUS | PCT_FREE | PCT_USED | INI_TRANS | MAX_TRANS | INITIAL_EXTENT | NEXT_EXTENT | MIN_EXTENTS | MAX_EXTE |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| AUDIT_LOG | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | 65536 | 1048576 | 1 | 2147483645 |
| BOOKS | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | 65536 | 1048576 | 1 | 2147483645 |
| COUNTRIES | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | 65536 | 1048576 | 1 | 2147483645 |
| DEPARTMENT | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | 65536 | 1048576 | 1 | 2147483645 |
| DEPT | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | 65536 | 1048576 | 1 | 2147483645 |
| EMP | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | 65536 | 1048576 | 1 | 2147483645 |
| EMP1 | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | - | - | - | - |
| EMPLOYEES | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | 65536 | 1048576 | 1 | 2147483645 |
| EMPLOYEE_AUDIT | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | 65536 | 1048576 | 1 | 2147483645 |
| HTMLDB_PLAN_TABLE | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | - | - | - | - |
| INVENTORY | APEX_BIGFILE_INSTANCE_TBS3 | - | - | VALID | 10 | - | 1 | 255 | 65536 | 1048576 | 1 | 2147483645 |

**10. REVOKE THE SELECT PRIVILEGE ON YOUR TABLE FROM THE OTHER TEAM.**

**REVOKE SELECT ON TEAM1_USER.DEPARTMENTS FROM OTHER_USER;**

**11. REMOVE THE ROW YOU INSERTED INTO THE DEPARTMENTS TABLE IN STEP 8 AND SAVE THECHANGES.**

**DELETE FROM DEPARTMENT**
**WHERE DEPT_ID IN (500, 510);**