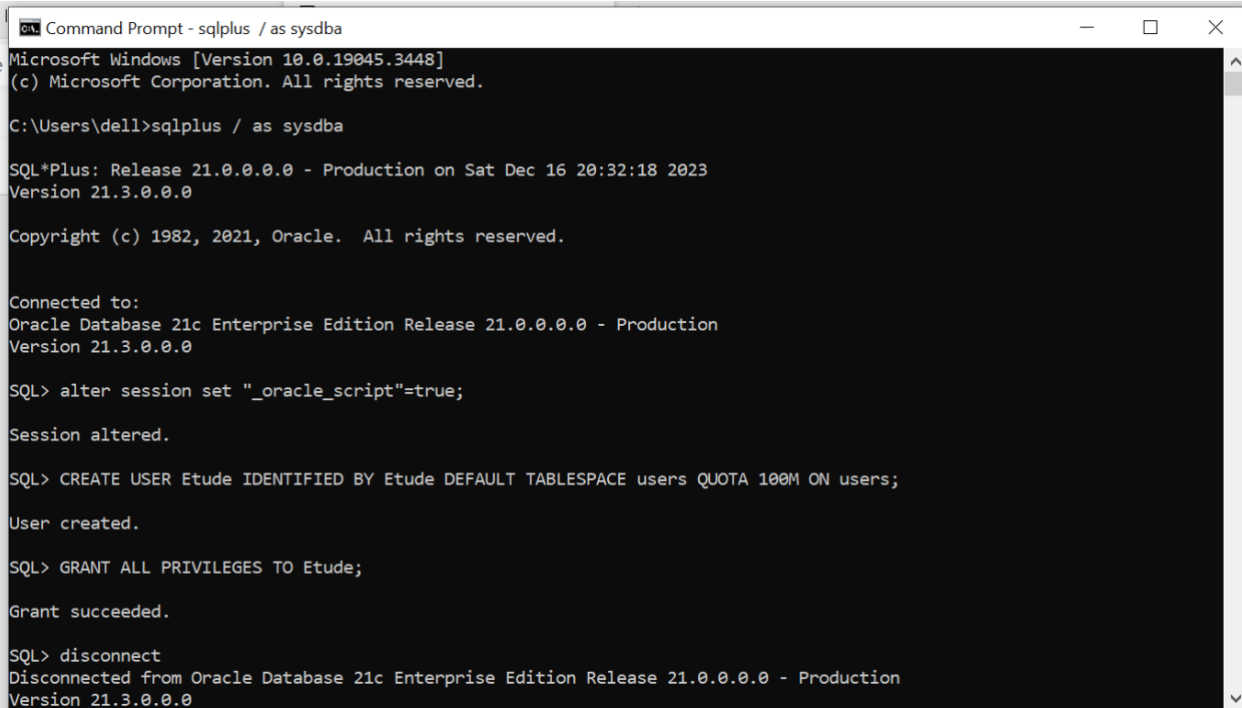


TP 2 BASE DE DONNEES ORACLE

Réaliser par : Elhillali Naoual



```
Command Prompt - sqlplus / as sysdba
Microsoft Windows [Version 10.0.19045.3448]
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C:\Users\dell>sqlplus / as sysdba

SQL*Plus: Release 21.0.0.0.0 - Production on Sat Dec 16 20:32:18 2023
Version 21.3.0.0.0

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Connected to:
Oracle Database 21c Enterprise Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0

SQL> alter session set "_oracle_script"=true;

Session altered.

SQL> CREATE USER Etude IDENTIFIED BY Etude DEFAULT TABLESPACE users QUOTA 100M ON users;

User created.

SQL> GRANT ALL PRIVILEGES TO Etude;

Grant succeeded.

SQL> disconnect
Disconnected from Oracle Database 21c Enterprise Edition Release 21.0.0.0.0 - Production
Version 21.3.0.0.0
```

```

Command Prompt - sqlplus / as sysdba

SQL> conn Etude/Etude
Connected.
SQL> show user
USER is "ETUDE"
SQL> create table Etude.etudiant(codeetudiant varchar(10) primary key,nometudiant varchar(20),prenometudiant varchar(20),
,datenaissance date,ville varchar(10));

Table created.

SQL> create table Etude.enseignant(codeenseignant varchar(10) primary key,nomeenseignant varchar(20),prenomenseignant var
char(20),specialite varchar(20));

Table created.

SQL> create table Etude.cours(codecours varchar(10) primary key ,intitule varchar2(20),nbheures number(2));

Table created.

SQL> create table Etude.resultat(codeetudiant varchar(10) constraint cd references etudiant on delete cascade,codecours
varchar(10) constraint cc references cours on delete cascade,note number(5,2));

Table created.

SQL> create table Etude.charge(codecours varchar(10) constraint cod references cours on delete cascade,codeenseignant va
rchar(10) constraint code references enseignant on delete cascade);

Table created.

SQL> INSERT INTO etudiant VALUES(1,elhillali,nawal,TO_DATE('2000-01-15', 'YYYY-MM-DD'),agadir);
INSERT INTO etudiant VALUES(1,elhillali,nawal,TO_DATE('2000-01-15', 'YYYY-MM-DD'),agadir)

```

```

Command Prompt - sqlplus / as sysdba

SQL> INSERT INTO etudiant VALUES (1, 'elhillali', 'nawal', TO_DATE('2000-01-15', 'YYYY-MM-DD'), 'Agadir');

1 row created.

SQL> INSERT INTO etudiant VALUES (2, 'alaoui', 'imane', TO_DATE('2003-01-15', 'YYYY-MM-DD'), 'Agadir');

1 row created.

SQL> INSERT INTO etudiant VALUES (3, 'benjaloun', 'nora', TO_DATE('2003-11-25', 'YYYY-MM-DD'), 'tiznit');

1 row created.

SQL> INSERT INTO etudiant VALUES (4, 'benani', 'ahmed', TO_DATE('2004-11-30', 'YYYY-MM-DD'), 'casa');

1 row created.

SQL> INSERT INTO etudiant VALUES (5, 'kahtani', 'mustapha', TO_DATE('2004-3-29', 'YYYY-MM-DD'), 'safi');

1 row created.

SQL> INSERT INTO etudiant VALUES (6, 'bahaoui', 'said', TO_DATE('2001-6-19', 'YYYY-MM-DD'), 'taroudant');

1 row created.

SQL> INSERT INTO cours VALUES('C001', 'Informatique', 40);

1 row created.

SQL> INSERT INTO cours (code, intitule, nbheures)
2 VALUES

```

```
Command Prompt - sqlplus / as sysdba

SQL> INSERT INTO cours VALUES('C002', 'Mathématiques', 30);
1 row created.

SQL> INSERT INTO cours VALUES ('C003', 'Physique', 35);
1 row created.

SQL> INSERT INTO cours VALUES('C004', 'Chimie', 25);
1 row created.

SQL> INSERT INTO cours VALUES('C005', 'Anglais', 20);
1 row created.

SQL> INSERT INTO cours VALUES ('C006', 'Histoire', 25);
1 row created.

SQL> INSERT INTO cours VALUES('C007', 'Biologie', 30);
1 row created.

SQL> INSERT INTO enseignant VALUES('E001', 'Martin', 'Jean', 'Mathématiques');
1 row created.

SQL> INSERT INTO enseignant VALUES ('E002', 'Dupont', 'Sophie', 'Informatique');
```

```
Command Prompt - sqlplus / as sysdba

SQL> INSERT INTO enseignant VALUES('E003', 'Leclerc', 'Pierre', 'Physique');
1 row created.

SQL> INSERT INTO enseignant VALUES('E004', 'Lefevre', 'Marie', 'Chimie');
1 row created.

SQL> INSERT INTO enseignant VALUES ('E005', 'Roux', 'Luc', 'Anglais');
1 row created.

SQL> INSERT INTO resultat values ('1', 'C001', 18);
1 row created.

SQL> INSERT INTO resultat values ('2', 'C002', 12);
1 row created.

SQL> INSERT INTO resultat values ('3', 'C003', 15);
1 row created.

SQL> INSERT INTO resultat values ('4', 'C004', 16);
1 row created.

SQL> INSERT INTO resultat values ('5', 'C005', 14);
```

```
Command Prompt - sqlplus / as sysdba

1 row created.

SQL> INSERT INTO charge values ('C001', 'E001');

1 row created.

SQL> INSERT INTO charge values ('C002', 'E002');

1 row created.

SQL> INSERT INTO charge values ('C003', 'E003');

1 row created.

SQL> INSERT INTO charge values ('C004', 'E004');

1 row created.

SQL> INSERT INTO charge values ('C005', 'E005');

1 row created.

SQL> UPDATE etudiants
  2 SET note = note * 1.05;
UPDATE etudiants
  *
ERROR at line 1:
ORA-00942: table or view does not exist
```

```
Command Prompt - sqlplus / as sysdba

SQL> UPDATE resultat
  2 SET note = note * 1.05;

5 rows updated.

SQL> UPDATE cours
  2 SET nom_cours = 'SGBD'
  3 1
  4

SQL> UPDATE cours
  2 SET codecours='SGBD'
  3
SQL>

SQL> UPDATE cours
  2 SET intitule='SGBD'
  3 where codecours=C005
  4

SQL> UPDATE cours
  2 SET intitule='SGBD'
  3 where codecours=C005;
  where codecours=C005
  *
ERROR at line 3:
ORA-00904: "C005": invalid identifier

SQL> UPDATE cours
  2 SET intitule='SGBD'
  3 where codecours='C005';
```

Command Prompt - sqlplus / as sysdba

```
SQL> UPDATE cours
  2   SET intitule='SGBD'
  3   where codecours='C005';

1 row updated.

SQL> DELETE FROM cours
  2   where codecours='C002';

1 row deleted.

SQL> COMMIT;

Commit complete.

SQL> SHOW TABLES;
SP2-0158: unknown SHOW option "TABLES"
SQL> SELECT table_name FROM user_tables;

TABLE_NAME
-----
ETUDIANT
ENSEIGNANT
COURS
RESULTAT
CHARGE

SQL> SELECT nomeetudiant, ville
  2   FROM etudiant;
SELECT nomeetudiant, ville
```

Command Prompt - sqlplus / as sysdba

```
SQL> SELECT nomeetudiant, ville
  2   FROM etudiant;

NOMETUDIANT      VILLE
-----
elhillali        Agadir
alaoui           Agadir
benjaloun        tiznit
benani           casa
kahtani          safi
bahaoui          taroudant

6 rows selected.

SQL> SELECT nomeetudiant, ville
  2   FROM etudiant
  3   ORDER BY nomeetudiant;

NOMETUDIANT      VILLE
-----
alaoui           Agadir
bahaoui          taroudant
benani           casa
benjaloun        tiznit
elhillali        Agadir
kahtani          safi

6 rows selected.

SQL> SELECT nomeetudiant
```

```
Command Prompt - sqlplus / as sysdba

SQL> SELECT nometudiant, EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM datenaissance) AS age
2 FROM etudiant
3 ORDER BY ville, age DESC;

NOMETUDIANT          AGE
-----
elhillali            23
alaoui               20
benani               19
kahtani              19
bahaoui              22
benjaloun            20

6 rows selected.

SQL> SELECT nometudiant, EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM datenaissance) AS age
2 FROM etudiant
3 WHERE EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM datenaissance) BETWEEN 17 AND 20
4 ORDER BY age DESC;

NOMETUDIANT          AGE
-----
alaoui               20
benjaloun            20
benani               19
kahtani              19

SQL> SELECT nometudiant, ville
2 FROM etudiant
3 WHERE ville IN ('casa', 'taroudant', 'safi');
```

```
Command Prompt - sqlplus / as sysdba

2 FROM etudiant
3 WHERE ville IN ('casa', 'taroudant', 'safi');

NOMETUDIANT          VILLE
-----
benani               casa
kahtani              safi
bahaoui              taroudant

SQL> SELECT nom
2
SQL> SELECT nometudiant
2 FROM etudiant
3 WHERE nometudiant LIKE '%Ben%' OR nometudiant LIKE '%oui%';

NOMETUDIANT
-----
alaoui
bahaoui

SQL> SELECT nometudiant
2 FROM etudiant
3 WHERE nometudiant LIKE '%ben%' OR nometudiant LIKE '%oui%';

NOMETUDIANT
-----
alaoui
benjaloun
benani
bahaoui
```