

\c iti

1. Insert new student and his score in exam in different subjects as transaction and save it.
 - BEGIN;
 - INSERT INTO student_course VALUES (7,1,'27/9/2023',100);
 - INSERT INTO student_course VALUES (7,2,'27/9/2023',99);
 - INSERT INTO student_course VALUES (7,3,'27/9/2023',98);
 - INSERT INTO student_course VALUES (7,4,'27/9/2023',97);
 - COMMIT;
2. Insert new students and his score in exam in different subjects as transaction and undo it.
 - BEGIN;
 - INSERT INTO student_course VALUES (8,1,'27/9/2023',100);
 - INSERT INTO student_course VALUES (8,2,'27/9/2023',99);
 - INSERT INTO student_course VALUES (8,3,'27/9/2023',98);
 - INSERT INTO student_course VALUES (8,4,'27/9/2023',97);
 - ROLLBACK;
3. Create a view for student names with their Tracks names which is belong to it.
 - CREATE VIEW studentTrack AS SELECT CONCAT(firstname, ' ', lastname) AS "Full Name", name AS "Track" FROM student s JOIN track t ON s.trackid = t.id;

4. Create a view for Tracks names and the subjects which is belong/study to it.

- `CREATE VIEW trackCourses AS SELECT t.name AS "Track" ,
c.name AS "Course" FROM track t JOIN track_course tc ON
t.id = tc.trackid JOIN course c ON tc.courseid = c.id ORDER BY
t.name;`

5. Create a view for student names with their subject's names which will study.

- `CREATE VIEW studentCourse AS SELECT
CONCAT(s.firstname, ' ', s.lastname) AS "Full Name", c.name
As "Course" FROM student s JOIN student_course sc ON s.id
= sc.studentid JOIN course c ON sc.courseid = c.id;`

6. Create a view for all students name (Full Name) with their score in each subject and its date.

- `CREATE VIEW studentCourseInfo AS SELECT
CONCAT(s.firstname, ' ', s.lastname) AS "Full Name", c.name
As "Course", sc.examscore AS "Score", sc.examdate AS "Date"
FROM student s JOIN student_course sc ON s.id =
sc.studentid JOIN course c ON sc.courseid = c.id;`

7. Create a temporary view for all subjects with their max_score.

- `CREATE TEMPORARY VIEW courseMaxScore AS SELECT name
AS "COURSE", maxScore AS "Max Score" FROM course;`

8. Create user and give him all privileges.

- CREATE USER Mohamed WITH PASSWORD 'moh123';
- GRANT ALL ON student TO Mohamed;

9. Create another new user and make the authentication method is “trust” and give him all privileges if he login from his “local” server.

- CREATE USER Mohamed;
- ALTER USER Mohamed PASSWORD NULL;
- GRANT ALL PRIVILEGES ON DATABASE iti TO Mohamed;
- ALTER USER Mohamed CONNECTION LIMIT 1;

10. (from Q.6) Display the date of exam as the following: *day 'month name' year*.

- SELECT to_char("Date", 'DD - MON - YYYY') AS "Date" FROM studentCourseInfo;

11. Display name and age of each students

- SELECT CONCAT(firstname, ' ', lastname) AS "Full Name", age(birthDate) AS "Age" From student;

12. Display the name of students with their *Rounded* score in each subject

- Select "Full Name" , round("Score") FROM studentCourseInfo;

13. Display the name of students with the year of *Birthdate* ;

- `SELECT CONCAT(firstname, ' ', lastname) AS "Full Name",
to_char(birthDate, 'YYYY') AS "Year of Birth" From student;`

14. Add new exam result, in date column use NOW() function;

- `INSERT INTO student_course VALUES (6,2,now(),93);`

15. Create database called ITI, and create different schema and
Tables inside this schema

- `CREATE DATABASE iti_mansoura;`
- `\c iti_mansoura;`
- `CREATE SCHEMA staff;`
- `CREATE SCHEMA tracks;`
- `CREATE TABLE staff.instructor(id int PRIMARY KEY, name text,
birth_of_date date, address text);`
- `CREATE TABLE tracks.professional(id int PRIMARY KEY, name
text);`