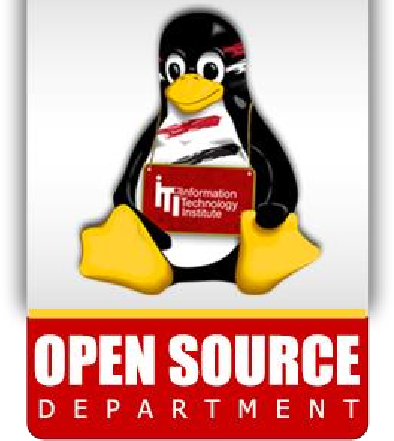
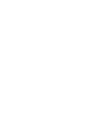
\c iti



**Lab**



**3**

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;

1. 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;

1. 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;

1



1. 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;

1. 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;

1. 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;

1. 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;

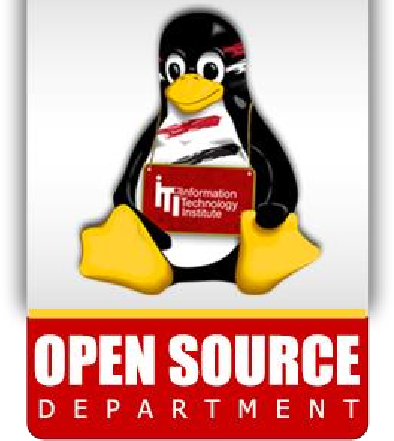
2



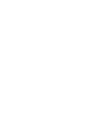
1. Create user and give him all privileges.

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

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



**Lab**



**3**

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

1. (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;

1. Display name and age of each students

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

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

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

3



1. 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;

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

* INSERT INTO student\_course VALUES (6,2,now(),93);

1. 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);

4

