Mohammad Ali Jinnah University

Chartered by Government of Sindh - Recognized by HEC

Lab Task 1

Name: Muhamad Fahad

Id: FA19-BSSE-0014

Subject: DBMS Lab

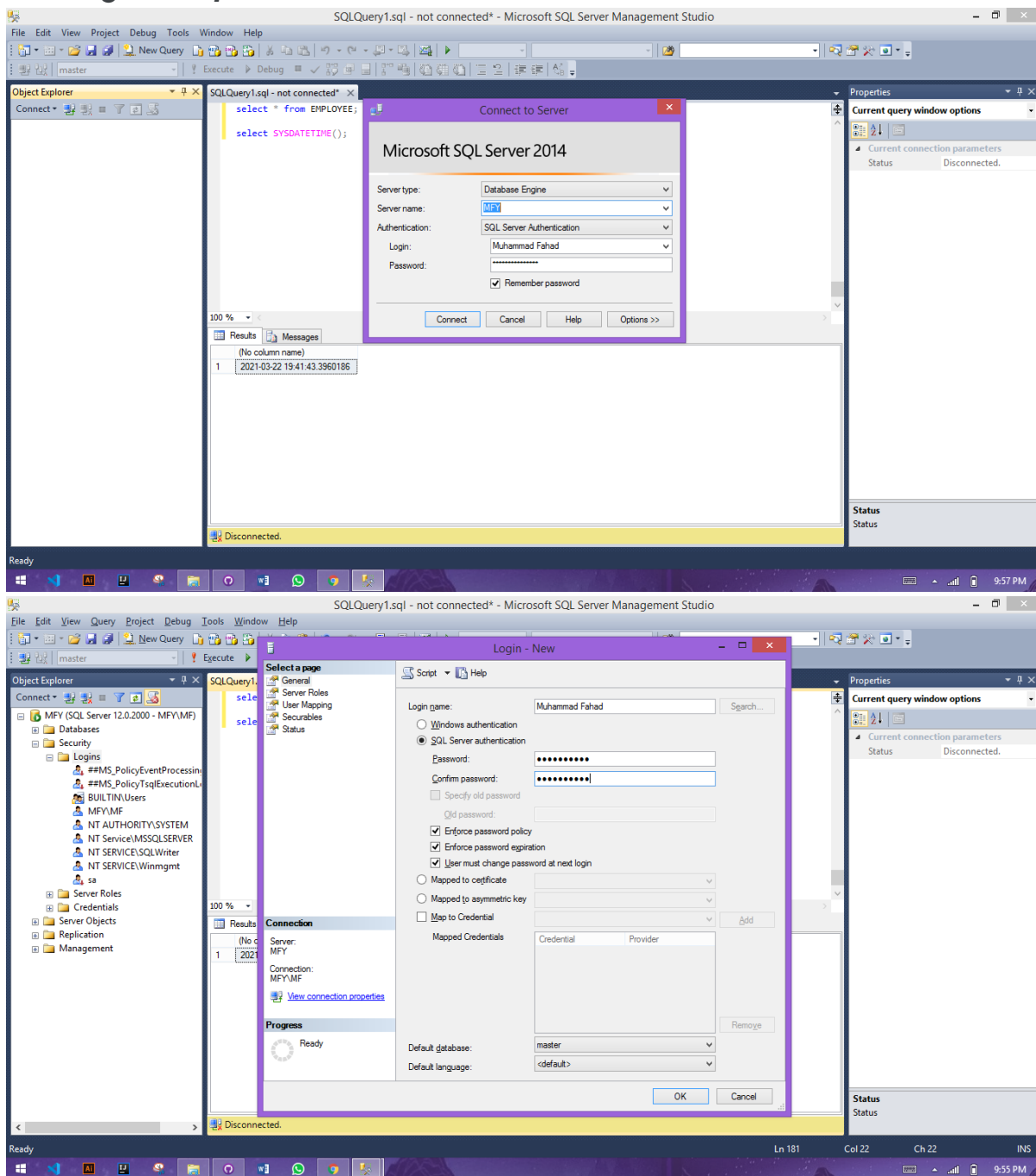**Section:** BM

Teacher: Rimsha Javed
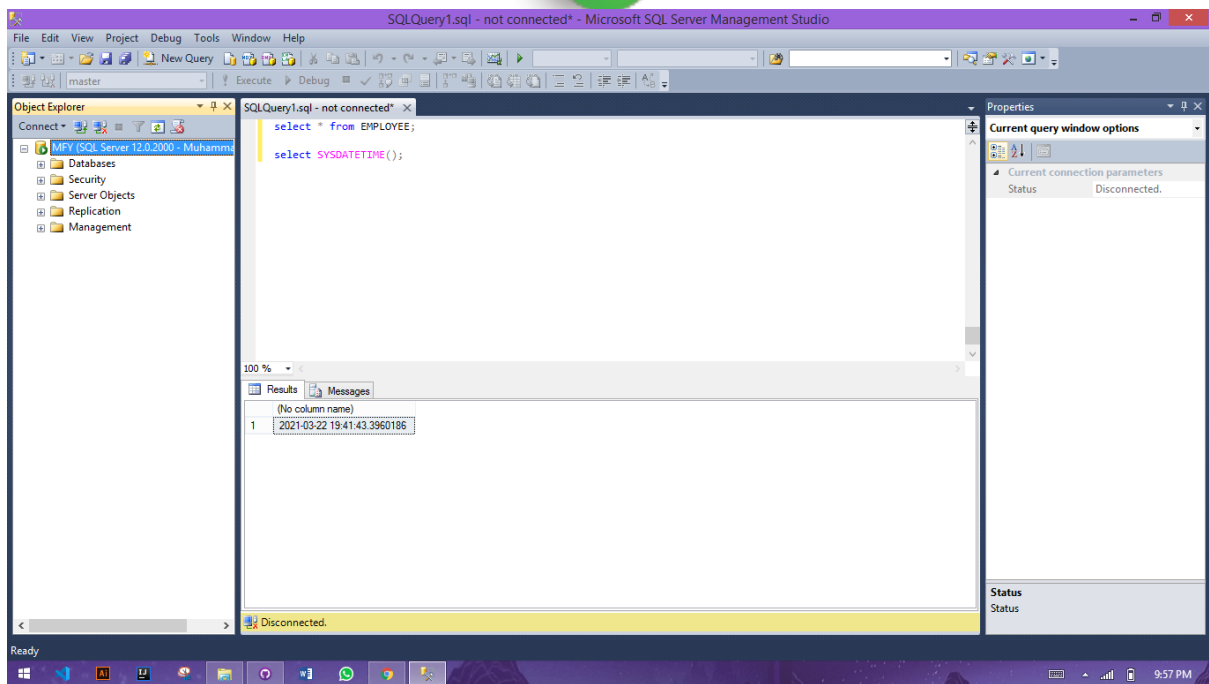
Date: Tuesday, March 23, 2021

Question

    I.   **Kindly Make the user login and password on the database as mention in the lab task file and take the screenshots in a word file and submit it.**

    II.   **(.sql file or .txt file) which hold your Queries Related to Task.**

   III.   **Database diagram of your task.**

        I want from You all are 3 files one is .sql file or .txt file and the second one is a word file and database diagram.

Answer:

User login and password:

SQL Query:

```sql
create database MAJU

use MAJU;

CREATE TABLE Students(
  ST_id      VARCHAR(15) NOT NULL,
  ST_name    VARCHAR(10),
  ST_Regdate VARCHAR(12),
  ST_CGPA    DECIMAL(3, 2),
  ST_Semes   int,
  deptno     VARCHAR(10)
);

CREATE TABLE EMPLOYEE(
  empno      INTEGER NOT NULL,
  name       VARCHAR(10),
  job        VARCHAR(9),
  boss       INTEGER,
  hiredate   VARCHAR(12),
  salary     DECIMAL(7, 2),
  comm       DECIMAL(7, 2),
  deptno     INTEGER
);

CREATE TABLE marks(
  ST_id      VARCHAR(15) NOT NULL,
  C_id       VARCHAR(14) NOT NULL,
  GPA    VARCHAR(13)
);

CREATE TABLE salary(
  empno      INTEGER NOT NULL,
  Salary     INTEGER NOT NULL,
  Methods    VARCHAR(10) NOT NULL
);
```

```sql
CREATE TABLE course (
    C_id        VARCHAR(10) NOT NULL,
    C_name          VARCHAR(9) NOT NULL,
    C_Creadit           DECIMAL(7, 2),
    Teacher         DECIMAL(7, 2)
);

-- Primary Keys and constraints
ALTER TABLE Students
    ADD CONSTRAINT ST_PK
    PRIMARY KEY (ST_id);

ALTER TABLE EMPLOYEE
    ADD CONSTRAINT em_pk
    PRIMARY KEY (empno);

ALTER TABLE course
    ADD CONSTRAINT c_PK
    PRIMARY KEY (C_id);


ALTER TABLE salary
    ADD CONSTRAINT empfk
    FOREIGN KEY (empno)
    REFERENCES EMPLOYEE (empno);

ALTER TABLE marks
    ADD CONSTRAINT marksfk
    FOREIGN KEY (ST_id)
    REFERENCES Students (ST_id);


ALTER TABLE marks
    ADD CONSTRAINT msfk
    FOREIGN KEY (C_id)
    REFERENCES course (C_id);



INSERT INTO course VALUES ('CS8983', 'DBMS',3,3);
INSERT INTO course VALUES ('CS456', 'DBMS lab',3,3);
INSERT INTO course VALUES ('CS8984', 'DDA',3,3);
INSERT INTO course VALUES ('CS8988', 'DSA',3,3);



INSERT INTO EMPLOYEE VALUES (7839, 'KING',    'PRESIDENT', NULL, '1981-11-17', 5000,
NULL, 10);
INSERT INTO EMPLOYEE VALUES (7566, 'JONES',  'MANAGER',   7839, '1981-04-02',  2975,
NULL, 20);
INSERT INTO EMPLOYEE VALUES(7788, 'SCOTT',  'ANALYST',   7566, '1982-12-09', 3000,
NULL, 20);
INSERT INTO EMPLOYEE VALUES(7876, 'ADAMS',  'CLERK',     7788, '1983-01-12', 1100,
NULL, 20);
INSERT INTO EMPLOYEE VALUES(7902, 'FORD',   'ANALYST',   7566, '1981-12-03',  3000,
NULL, 20);
INSERT INTO EMPLOYEE VALUES(7369, 'SMITH',  'CLERK',     7902, '1980-12-17',  800,
NULL, 20);
INSERT INTO EMPLOYEE VALUES (7698, 'BLAKE',  'MANAGER',   7839, '1981-05-01',  2850,
NULL, 30);
```

```sql
INSERT INTO EMPLOYEE VALUES(7499, 'ALLEN',  'SALESMAN',  7698, '1981-02-20', 1600,
300, 30);

INSERT INTO Students VALUES('FA19BSSE0014', 'M.Fahad', '1981-02-22', 3.60,  4,
'BSSE');
INSERT INTO Students VALUES('FA19BSSE0030', 'M', '1981-02-22', 3.60,  4, 'BSSE');
INSERT INTO Students VALUES('FA19BSSE0020', 'Muhammad', '1981-02-22', 3.60,  4,
'BSSE');
INSERT INTO Students VALUES('FA19BSSE0024', 'Fahad', '1981-02-22', 3.60,  4, 'BSSE');


select * from EMPLOYEE;
select * from Students;
select * from marks;
select * from salary;
select * from course;

drop table Students
drop table EMPLOYEE;
drop table marks;
drop table salary;
drop table course;
```

Diagram

course

🔑	C_id
	C_name
	C_Creadit
	Teacher

EMPLOYEE

🔑	empno
	name
	job
	boss
	hiredate
	salary
	comm
	deptno

Students

🔑	ST_id
	ST_name
	ST_Regdate
	ST_CGPA
	ST_Semes
	deptno

salary

	empno
	Salary
	Methods

marks

	ST_id
	C_id
	GPA