

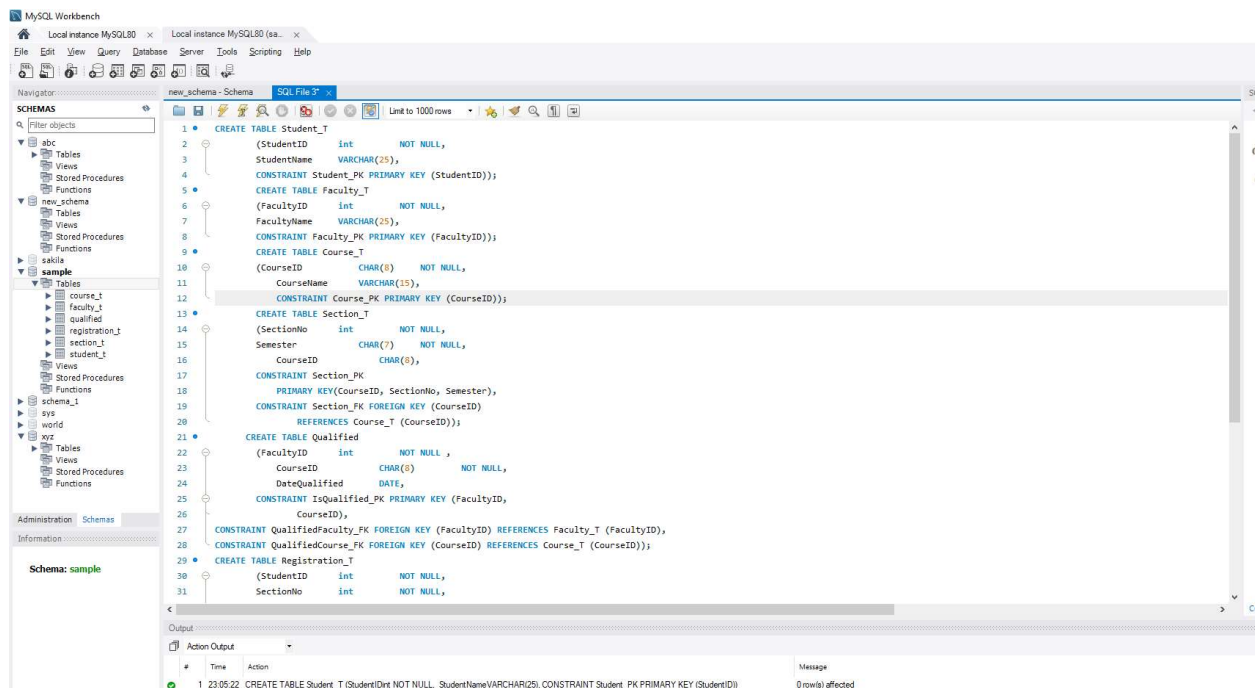
DMDD HOMEWORK 08

Name: Romita Upendra Thally

NUID: 002100103

Email: thally.r@northeastern.edu

Q. 1

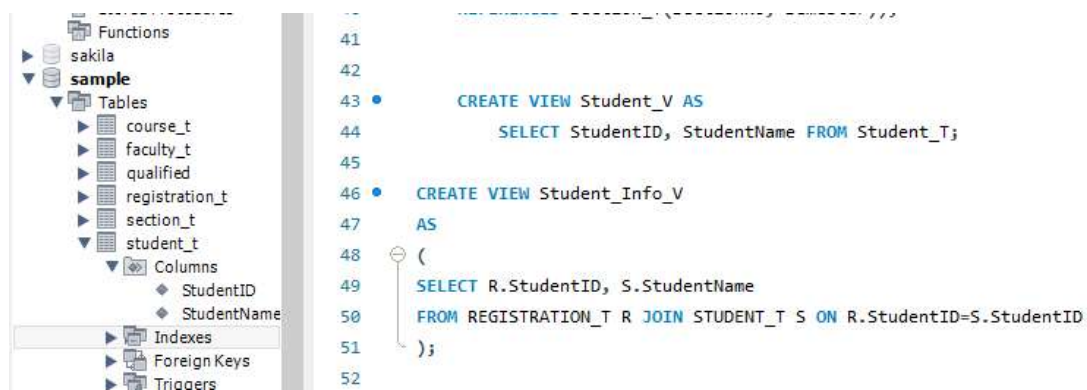


```
1 CREATE TABLE Student_T
2   (StudentID      int          NOT NULL,
3    StudentName    VARCHAR(25),
4    CONSTRAINT Student_PK PRIMARY KEY (StudentID));
5 CREATE TABLE Faculty_T
6   (FacultyID      int          NOT NULL,
7    FacultyName    VARCHAR(25),
8    CONSTRAINT Faculty_PK PRIMARY KEY (FacultyID));
9 CREATE TABLE Course_T
10  (CourseID       char(8)      NOT NULL,
11   CourseName     VARCHAR(15),
12   CONSTRAINT Course_PK PRIMARY KEY (CourseID));
13 CREATE TABLE Section_T
14  (SectionNo      int          NOT NULL,
15   Semester       char(7)     NOT NULL,
16   CourseID       char(8),
17   CONSTRAINT Section_PK
18     PRIMARY KEY(CourseID, SectionNo, Semester),
19   CONSTRAINT Section_FK FOREIGN KEY (CourseID)
20     REFERENCES Course_T (CourseID));
21 CREATE TABLE Qualified
22  (FacultyID      int          NOT NULL,
23   CourseID       char(8)     NOT NULL,
24   DateQualified  date,
25   CONSTRAINT IsQualified_PK PRIMARY KEY (FacultyID,
26     CourseID),
27   CONSTRAINT QualifiedFaculty_FK FOREIGN KEY (FacultyID) REFERENCES Faculty_T (FacultyID),
28   CONSTRAINT QualifiedCourse_FK FOREIGN KEY (CourseID) REFERENCES Course_T (CourseID));
29 CREATE TABLE Registration_T
30  (StudentID      int          NOT NULL,
31   SectionNo      int          NOT NULL,
```

Output:

#	Time	Action	Message
1	23:05:22	CREATE TABLE Student_T (StudentID int NOT NULL, StudentName VARCHAR(25), CONSTRAINT Student_PK PRIMARY KEY (StudentID))	0 row(s) affected

Q. 2.

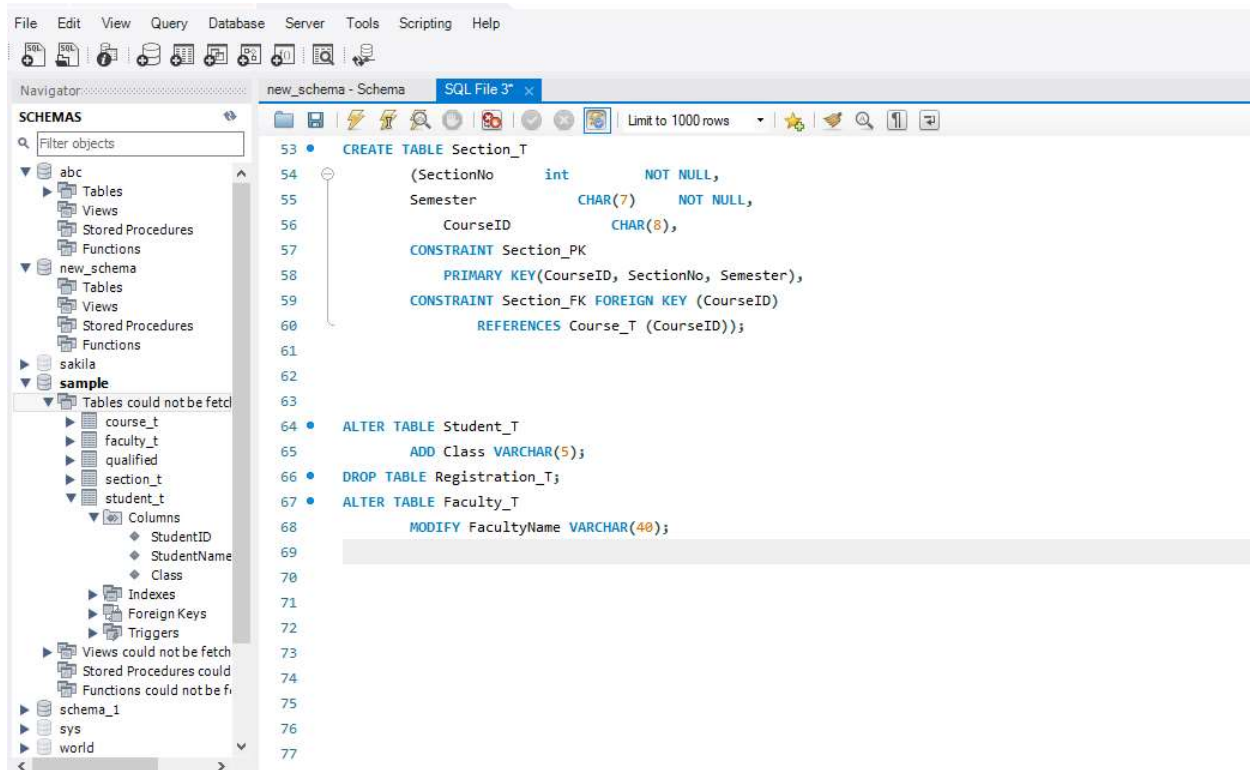


```
41
42
43 CREATE VIEW Student_V AS
44   SELECT StudentID, StudentName FROM Student_T;
45
46 CREATE VIEW Student_Info_V
47 AS
48 (
49   SELECT R.StudentID, S.StudentName
50   FROM REGISTRATION_T R JOIN STUDENT_T S ON R.StudentID=S.StudentID
51 );
52
```

Diagram of the database schema:

- Functions
 - sakila
 - sample
 - Tables
 - course_t
 - faculty_t
 - qualified
 - registration_t
 - section_t
 - student_t
 - Columns
 - StudentID
 - StudentName
 - Indexes
 - Foreign Keys
 - Triggers

Q. 3.



Q. 4.



Q. 5.

MySQL Workbench

Local instance MySQL80 x Local instance MySQL80 (sa... x

File Edit View Query Database Server Tools Scripting Help

Navigator: new_schema - Schema SQL File 3*

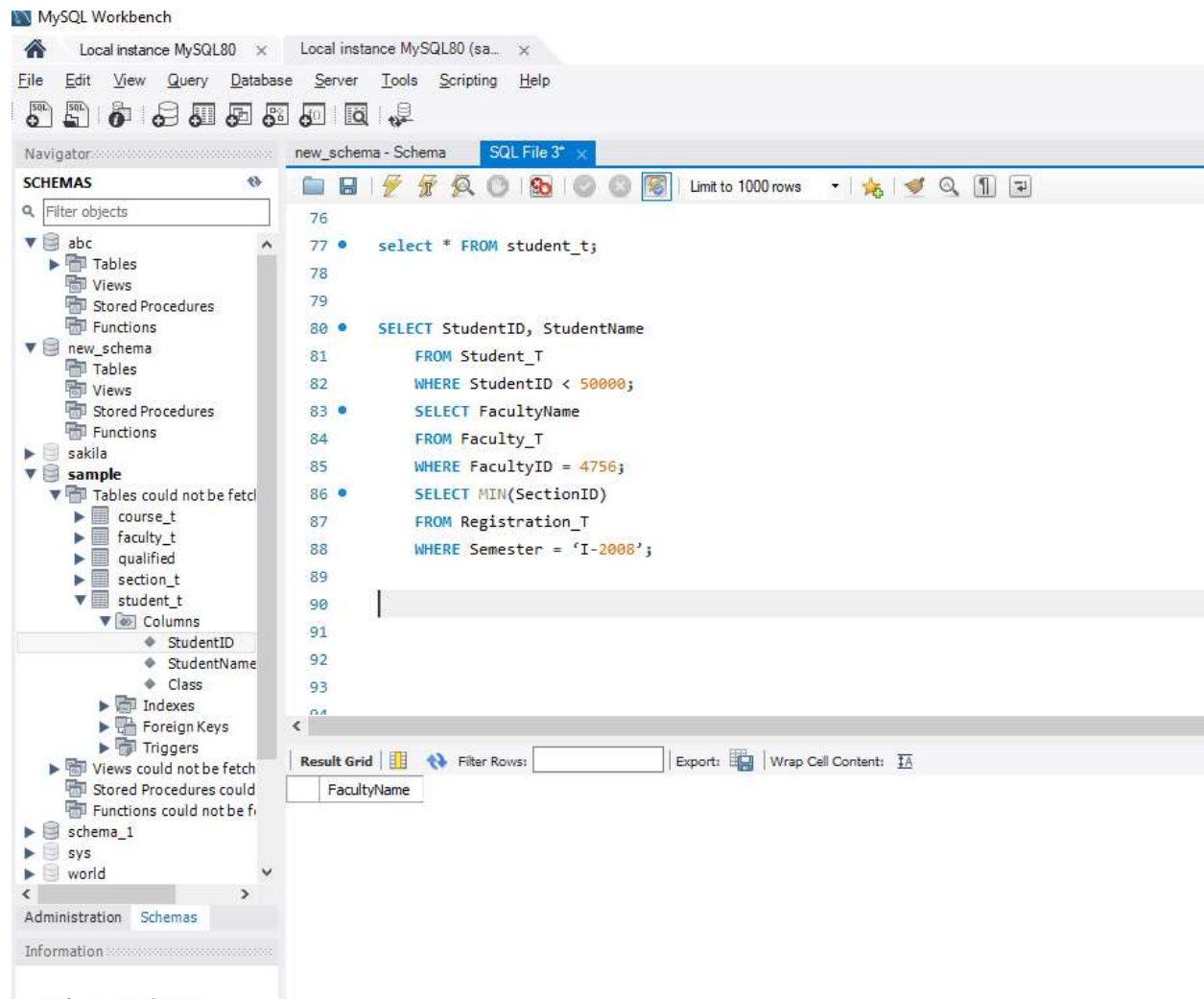
Limit to 1000 rows

67 • ALTER TABLE Faculty_T
68 MODIFY FacultyName VARCHAR(40);
69
70
71 • INSERT INTO STUDENT_T VALUES (12345, 'Romita', NULL);
72 • INSERT INTO STUDENT_T (StudentID, StudentName) VALUES (12345, 'Romita');
73 • DELETE FROM STUDENT_T WHERE StudentID = 12345;
74 • UPDATE COURSE_T SET CourseName = 'DBMS' WHERE CourseID = 'DB 7245';
75
76
77 • select * FROM student_t
78
79
80
81
82
83
84
85

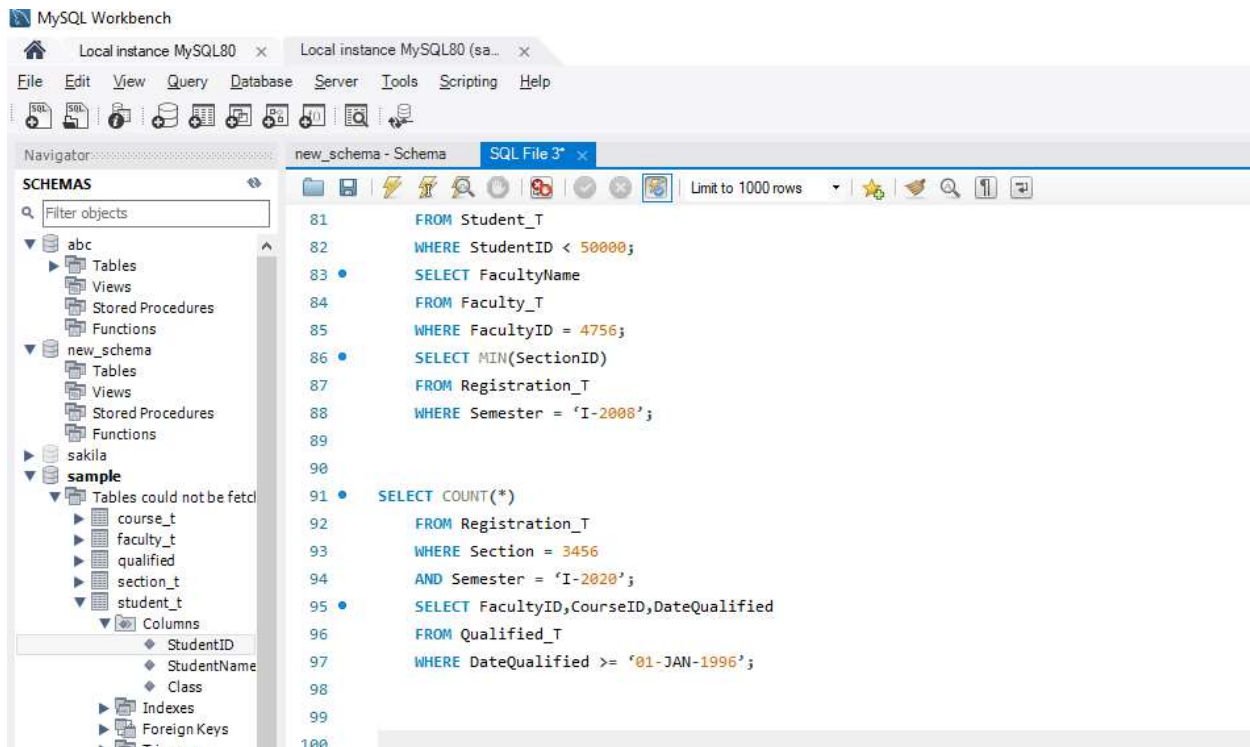
Result Grid Filter Rows: Edit: Export/Import: Wrap Cell Content:

StudentID	StudentName	Class
12345	Romita	NULL
65798	Lopez	NULL
•	•	•

Q. 6.



Q.7



Q. 8.

