Andres Delgado

2059273

Project1

COP4710

Section -RVC

**-- Task 1**

**-- Query 1**

CREATE TABLE STUDENT

(

student\_id INT,

name VARCHAR(50) NOT NULL,

date\_of\_birth DATE,

address VARCHAR(30),

email VARCHAR(30),

level VARCHAR(30) NOT NULL,

PRIMARY KEY(student\_id),

Unique(email)

);

CREATE TABLE FACULTIES

(

faculty\_id INT,

name VARCHAR(50) NOT NULL,

date\_of\_birth DATE,

address VARCHAR(30),

email VARCHAR(30),

level VARCHAR(30) NOT NULL,

PRIMARY KEY(faculty\_id),

Unique(email)

);

CREATE TABLE COURSES

(

course\_id INT,

description VARCHAR(100) NOT NULL,

level VARCHAR(30) NOT NULL,

instructor INT,

PRIMARY KEY(course\_id),

FOREIGN KEY(instructor) REFERENCES FACULTIES(faculty\_id)

);

CREATE TABLE ENROLL

(

student\_id INT REFERENCES STUDENT(student\_id),

course\_id INT REFERENCES COURSES(course\_id),

grade VARCHAR(2),

PRIMARY KEY(student\_id, course\_id)

);

**-- Query 2**

INSERT INTO STUDENT (student\_id, name, date\_of\_birth, address, email, level)

VALUES (1, 'Alice Wood', '06/15/1993', '5637 NW 41 ST', 'awood001@cis.fiu.edu', 'ugrad');

INSERT INTO STUDENT (student\_id, name, date\_of\_birth, address, email, level)

VALUES (2, 'Henrie Cage', '04/24/1994', '1443 NW 7 ST', 'hcage001@cis.fiu.edu', 'ugrad');

INSERT INTO STUDENT (student\_id, name, date\_of\_birth, address, email, level)

VALUES (3, 'John Smith', '01/09/1995', '731 NW 87 AVE', 'jsmit005@cis.fiu.edu', 'ugrad');

INSERT INTO STUDENT (student\_id, name, date\_of\_birth, address, email, level)

VALUES (4, 'Franklin Wong', '12/08/1995', '638 NW 104 AVE', 'fwong001@cis.fiu.edu', 'ugrad');

INSERT INTO STUDENT (student\_id, name, date\_of\_birth, address, email, level)

VALUES (5, 'Jennifer King', '11/08/1998', '3500 W Flagler ST', 'jking001@cis.fiu.edu', 'ugrad');

INSERT INTO STUDENT (student\_id, name, date\_of\_birth, address, email, level)

VALUES (6, 'Richard Young', '12/05/1995', '778 SW 87 AVE', 'ryoun001@cis.fiu.edu', 'grad');

INSERT INTO STUDENT (student\_id, name, date\_of\_birth, address, email, level)

VALUES (7, 'Robert Poore', '08/22/1996', '101 SW 8 ST', 'rpooj001@cis.fiu.edu', 'grad');

INSERT INTO STUDENT (student\_id, name, date\_of\_birth, address, email, level)

VALUES (8, 'Joyce English', '07/31/1999', '8421 SW 109 AVE', 'jengl001@cis.fiu.edu', 'grad');

INSERT INTO FACULTIES (faculty\_id, name, date\_of\_birth, address, email, level)

VALUES (1, 'George Blunt', '08/13/1979', '11345 SW 56th ST', 'bluns@cs.fiu.edu', 'Instructor');

INSERT INTO FACULTIES (faculty\_id, name, date\_of\_birth, address, email, level)

VALUES (2, 'Thomas Taylor', '05/24/1988', '4467 NW 8 ST', 'taylt@cs.fiu.edu', 'Instructor');

INSERT INTO FACULTIES (faculty\_id, name, date\_of\_birth, address, email, level)

VALUES (3, 'Daniel Evans', '10/07/1979', '8754 SW 134 TER', 'evand@cs.fiu.edu', 'Professor');

INSERT INTO FACULTIES (faculty\_id, name, date\_of\_birth, address, email, level)

VALUES (4, 'Ramesh Nara', '09/15/1982', '5631 SW 72 ST', 'narar@cs.fiu.edu', 'Professor');

INSERT INTO FACULTIES (faculty\_id, name, date\_of\_birth, address, email, level)

VALUES (5, 'Steven Garden', '09/18/1975', '1277 SW 87 AVE', 'gards@cs.fiu.edu', 'Associate Professor');

INSERT INTO FACULTIES (faculty\_id, name, date\_of\_birth, address, email, level)

VALUES (6, 'William Parre', '11/22/1976', '1570 NE 127 AVE', 'parrw@cs.fiu.edu', 'Instructor');

INSERT INTO COURSES (course\_id, description, level, instructor)

VALUES (1, 'Fundamentals of Computer Sys.', 'ugrad', 1);

INSERT INTO COURSES (course\_id, description, level, instructor)

VALUES (2, 'Software Engineering I', 'ugrad', 2);

INSERT INTO COURSES (course\_id, description, level, instructor)

VALUES (3, 'Computer Programming I', 'ugrad', 2);

INSERT INTO COURSES (course\_id, description, level, instructor)

VALUES (4, 'Introduction to Algorithms', 'grad', 4);

INSERT INTO COURSES (course\_id, description, level, instructor)

VALUES (5, 'Operating Systems', 'grad', 5);

INSERT INTO COURSES (course\_id, description, level, instructor)

VALUES (6, 'Software Design', 'grad', 6);

INSERT INTO COURSES (course\_id, description, level, instructor)

VALUES (7, 'Advanced Database', 'grad', 5);

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (1, 1, 'A');

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (1, 2, 'B');

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (1, 3, 'A');

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (3, 1, 'F');

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (3, 3, 'C');

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (4, 3, 'NA');

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (5, 1, 'B');

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (6, 6, 'C');

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (6, 7, 'B');

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (7, 7, 'B');

**-- Task 2**

**-- Query 1**

INSERT INTO ENROLL (student\_id, course\_id, grade)

VALUES (2, 1, 'D'),

(2, 2, 'NA'),

(2, 3, 'F'),

(8, 5, 'A'),

(8, 7, 'A');

**-- Query 2**

DELETE FROM enroll WHERE grade = 'NA';

**-- Query 3**

ALTER TABLE courses

ADD semester VARCHAR(12);

**-- Query 4**

UPDATE enroll

SET grade = 'C'

WHERE student\_id IN

(SELECT student\_id

FROM student

WHERE name = 'Henrie Cage'

)

AND course\_id IN

(SELECT course\_id

FROM courses

WHERE description = 'Computer Programming I'

)

;

**-- Query 5**

ALTER TABLE courses

ADD CONSTRAINT restrict\_delete

FOREIGN KEY (instructor)

REFERENCES faculties(faculty\_id) ON DELETE RESTRICT;

**-- Query 6**

ALTER TABLE enroll

ALTER COLUMN grade

SET NOT NULL;

**-- Query 7**

COPY enroll

TO 'Enroll.csv' DELIMITER ',' CSV HEADER;