Daniel Montes

5/16

CSCD 327

Dan Li

Lab 7

Question 1:

UPDATE s24dmontes2\_universityDB.instructor

SET salary = salary \* 1.1

WHERE dept\_name = 'Comp. Sci.';

Question 2:

USE s24dmontes2\_universityDB;

DELETE FROM s24dmontes2\_universityDB.course

WHERE course\_id NOT IN (SELECT course\_id

FROM section);

Question 3:

INSERT INTO s24dmontes2\_universityDB.instructor

SELECT ID, name, dept\_name, 10000

FROM s24dmontes2\_universityDB.student

WHERE tot\_cred > 100;

Question 4:

Course: INSERT INTO course(course\_id, title, dept\_name, credits)

VALUES('CS-001', 'Computer Basis', 'Comp. Sci.', 2)

Section: INSERT INTO section(course\_id, sec\_id, semester, year, building, room\_number, time\_slot\_id)

VALUES('CS-001', 1, 'Fall', 2019, Null, Null, Null)

Enrollment: INSERT INTO takes(ID, course\_id, sec\_id, semester, year, grade)

SELECT id, 'CS-001', 1, 'Fall', 2019, null

FROM student

WHERE student.dept\_name = 'Comp. Sci.';

Question 5:

DELETE FROM takes

WHERE Course\_ID = 'CS-001' AND Section = '1' AND Semester = 'Fall' AND Year = 2019

AND name = 'Zhang';

Question 6:

DELETE FROM takes

WHERE Course\_ID IN (SELECT Course\_ID

FROM course

WHERE LOWER(Title) LIKE '%database%');

Question 7:

USE s24dmontes2\_universityDB;

UPDATE student S

SET S.tot\_cred = (SELECT COALESCE(SUM(CASE WHEN T.grade IN ('A','B','C','D')

THEN c.credits ELSE 0 END), 0)

FROM takes T

JOIN course c ON T.course\_id = c.course\_id

WHERE T.id = S.id

GROUP BY T.id

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Creating the database:

* CREATE DATABASE s24dmontes2\_Constraints;

Question 8:

CREATE TABLE STORE\_REPS (

Rep\_ID INT(5) PRIMARY KEY,

Last VARCHAR(15),

First VARCHAR(10),

Comm CHAR(1) DEFAULT 'Y');

Question 9:

ALTER TABLE STORE\_REPS

MODIFY First VARCHAR(10) NOT NULL,

MODIFY Last VARCHAR(15) NOT NULL;

Question 10:

CREATE TABLE BOOK\_STORES (

Store\_ID INT(8) PRIMARY KEY,

Name VARCHAR(30) UNIQUE NOT NULL,

Contact VARCHAR(20),

Rep\_ID INT(5));

Question 11:

USE s24dmontes2\_Constraints;

ALTER TABLE BOOK\_STORES

ADD CONSTRAINT fk\_rep\_id

FOREIGN KEY (Rep\_ID)

REFERENCES STORE\_REPS(Rep\_ID)

ON DELETE CASCADE;

Question 12:

USE s24dmontes2\_Constraints;

CREATE TABLE REP\_CONTRACTS (

Store\_ID INT(8),

Name INT(5),

Quarter CHAR(3),

Rep\_ID INT(5),

PRIMARY KEY (Rep\_ID, Store\_ID, Quarter),

FOREIGN KEY (Rep\_ID) REFERENCES STORE\_REPS (Rep\_ID),

FOREIGN KEY (Store\_ID) REFERENCES BOOK\_STORES (Store\_ID));