For each class:

Class number, pid, semester, start date, end date

Section:

Room number, time, person id, date of exam

For students:

Person id, name, email address, balance

Professors:

Person id, name, email address

Parking space:

Lot number

Volunteer work:

Organization, hours

Student registers for sections:

grade

Professor teaches sections

Class has sections

Student does volunteer work

Person superclass of (students, professors):

Email address, person id

Person has parking space

\* - Stored procedure

Queries:

\*1. List students with an outstanding balance - **Donivan**

\* 2. Print transcript for student - **Suresh**

3. List students without volunteer work - **Suresh**

4. List students with parking permits with student id , student name and lot number - **Sajan**

5.Find the Courses taught in 'Fall2021' also list the name of the professor teaching that class - **Sajan**

\*6. Get email address of person by department name - **Sajan**

X \* 7. List students with >= user-specified GPA - **Cameron**

X 8. Print average grade of all courses - **Cameron**

\* 9. List the students volunteer hours and the organization name with user specified student id **Rabin**

10. Find the total number of courses in ‘Spring2019’. Display the semester name and total count.- **Rabin**

\*11. Print student names who have conflicting class times in their schedule - **Suresh**

\*12. Print email addresses of students who did volunteer work for specific organization - **Rabin**

\* 13. List students with <= user-specified grade for course - **Suresh**

14. List parking lots with available spaces - **Donivan**

\*15. Given the pid, List students taking a specific course & their gpa - **Sajan**

16. List students who retook a course - **Donivan**

17.Find the course schedule for ‘CSCI440’ for ‘Summer2021’. List the course id, room number , building name and class time.- **Rabin**

X 18. Print final exam time for all courses - **Cameron**

X \*19. List faculty & their contact information in specific department - **Cameron**

\*20. List courses that happen between 2 user-specified times - **Donivan**

Create tables:

Cameron:

- Course : Entity

- Scheduled : Relation

- Final Exam : Entity

Donivan:

- Room : Entity

- Location : Relation

Rabin:

- Student : Entity

- volunteer at : Relation

- Organization: Entity

Sajan:

- Person : Entity

- Faculty : Entity

- Teaches : Relation

Suresh:

- Parking lot : Entity

- Parks at : Relation

- Register : Relation

CREATE TABLE Person(

pid INTEGER,

person\_name VARCHAR(20),

email VARCHAR (20),

PRIMARY KEY(pid));

CREATE TABLE Faculty(

pid INTEGER,

dept\_id INTEGER,

dept\_name CHAR(20),

PRIMARY KEY(pid),

FOREIGN KEY(pid) REFERENCES Person);

CREATE TABLE Teaches(

pid INTEGER,

cid INTEGER,

semester INTEGER,

PRIMARY KEY(pid,cid,semester),

FOREIGN KEY (pid) REFERENCES Faculty(pid),

FOREIGN KEY (cid,semester) REFERENCES course);