CREATE TABLE Student

(

student\_name VARCHAR(50),

username VARCHAR(20),

faculty VARCHAR(20),

student\_id INT,

email VARCHAR(50),

year INT,

login\_time DATETIME,

logout\_time DATETIME,

login\_duration INT,

PRIMARY KEY(username)

);

CREATE TABLE Participate

(

username VARCHAR(20),

course\_id VARCHAR(20), # e.g. COMP3250\_A, STAT1600\_T2

FOREIGN KEY(course\_id) REFERENCES Course(course\_id),

FOREIGN KEY(username) REFERENCES Student(username)

);

CREATE TABLE Course

(

day\_of\_week VARCHAR(20),

start\_time TIME,

end\_time TIME,

#duration INT,

course\_id VARCHAR(20), # e.g. COMP3250\_A, STAT1600\_T2

course\_name VARCHAR(100), # Computer Programming

course\_materials VARCHAR(500),

course\_information VARCHAR(500),

links\_of\_zoom VARCHAR(500),

PRIMARY KEY(course\_id)

);

CREATE TABLE Classroom

(

classroom\_id VARCHAR(20),

classroom\_address VARCHAR(50),

PRIMARY KEY(classroom\_id)

);

CREATE TABLE Location

(

classroom\_id VARCHAR(20),

course\_id VARCHAR(20),

FOREIGN KEY(course\_id) REFERENCES Course(course\_id),

FOREIGN KEY(classroom\_id) REFERENCES Classroom(classroom\_id)

);

#assume tutorial holds in same place as lectures

CREATE TABLE Tutorial

(

tutor\_name VARCHAR(50),

tutorial\_materials VARCHAR(500),

tutorial\_id INT,

course\_id VARCHAR(20),

PRIMARY KEY(tutorial\_id),

FOREIGN KEY(course\_id) REFERENCES Course(course\_id)

);

CREATE TABLE Instruct

(

course\_id VARCHAR(20),

instructor\_id INT,

PRIMARY KEY(course\_id, instructor\_id),

FOREIGN KEY(course\_id) REFERENCES Course(course\_id),

FOREIGN KEY(instructor\_id) REFERENCES Instructor(instructor\_id)

);

CREATE TABLE Instructor

(

instructor\_id INT,

instructor\_name VARCHAR(50),

PRIMARY KEY(instructor\_id)

);

**Queries**

# list of all students and courses they are taking

SELECT Student.username, Participate.course\_id\_subclass, Course.start\_time

FROM Student, Participate, Course

WHERE Student.username = Participate.username

AND Participate.course\_id\_subclass = Course.course\_id\_subclass

# information to create timetable

SELECT Course.course\_id\_subclass, Course.day\_of\_week, Course.start\_time, Course.duration, Location.links\_of\_zoom

FROM Participate, Course, Location

WHERE Participate.username = Course.username

AND Course.Location.links\_of\_zoom

# email/user behavior

SELECT \*

FROM STUDENT