CREATE DATABASE Yvle;

USE Yvle;

-- DROP DATABASE Yvle;

CREATE TABLE User(

User\_id int NOT NULL,

Username varchar(255) NOT NULL,

Password varchar(255) NOT NULL,

PRIMARY KEY (User\_id)

);

CREATE TABLE Account(

Account\_name varchar(255) NOT NULL,

Account\_type varchar(255) NOT NULL,

User\_id INT NOT NULL,

PRIMARY KEY (Account\_name),

FOREIGN KEY (User\_id) REFERENCES User(User\_id)

);

CREATE TABLE Member(

Member\_id varchar(255) NOT NULL,

User\_id int NOT NULL,

PRIMARY KEY (Member\_id),

FOREIGN KEY (User\_id) REFERENCES User(User\_id)

);

CREATE TABLE Student(

Student\_id varchar(255) NOT NULL,

Name varchar(255) NOT NULL,

User\_id int NOT NULL,

PRIMARY KEY (Student\_id),

FOREIGN KEY (User\_id) REFERENCES User(User\_id)

);

CREATE TABLE Lecture(

Lecturer\_id varchar(255) NOT NULL,

Name varchar(255) NOT NULL,

User\_id int NOT NULL,

PRIMARY KEY (Lecturer\_id),

FOREIGN KEY (User\_id) REFERENCES User(User\_id)

);

CREATE TABLE Course(

Course\_id varchar(255) NOT NULL,

C\_name varchar(255) NOT NULL,

Lecture\_id varchar(255) NOT NULL,

PRIMARY KEY (Course\_id),

FOREIGN KEY (Lecture\_id) REFERENCES Lecture(Lecturer\_id)

);

CREATE TABLE DiscussionForum(

Forum\_id varchar(255) NOT NULL,

Forum\_name varchar(255) NOT NULL,

Course\_id varchar(255) NOT NULL,

PRIMARY KEY (Forum\_id),

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

);

CREATE TABLE DiscussionThread(

Thread\_id varchar(255) NOT NULL,

Thread\_Title varchar(255) NOT NULL,

Thread\_content varchar(255) NOT NULL,

User\_id int NOT NULL,

Forum\_id varchar(255) NOT NULL,

PRIMARY KEY (Thread\_id),

FOREIGN KEY (User\_id) REFERENCES User(User\_id),

FOREIGN KEY (Forum\_id) REFERENCES DiscussionForum(Forum\_id)

);

CREATE TABLE CalendarEvent(

Event\_id varchar(255) NOT NULL,

Event\_name varchar(255) NOT NULL,

Event\_description varchar(255) NOT NULL,

Event\_date date NOT NULL,

Course\_id varchar(255) NOT NULL,

PRIMARY KEY (Event\_id),

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

);

CREATE TABLE Section(

Section\_id varchar(255) NOT NULL,

Section\_title varchar(255) NOT NULL,

Course\_id varchar(255) NOT NULL,

PRIMARY KEY (Section\_id),

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

);

CREATE TABLE SectionItem(

Item\_id varchar(255) NOT NULL,

Item\_name varchar(255) NOT NULL,

Item\_type varchar(255) NOT NULL,

Item\_url varchar(255) NOT NULL,

Section\_id varchar(255) NOT NULL,

PRIMARY KEY (Item\_id),

FOREIGN KEY (Section\_id) REFERENCES Section(Section\_id)

);

CREATE TABLE CourseContent(

Content\_id varchar(255) NOT NULL,

Content\_name varchar(255) NOT NULL,

Course\_id varchar(255) NOT NULL,

PRIMARY KEY (Content\_id),

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

);

CREATE TABLE Assignment(

Assignment\_id varchar(255) NOT NULL,

Assignment\_url varchar(255) NOT NULL,

Course\_id varchar(255) NOT NULL,

PRIMARY KEY (Assignment\_id),

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

);

CREATE TABLE Grade(

Grade\_id varchar(255) NOT NULL,

Letter\_grade varchar(5) NOT NULL,

Assignment\_id varchar(255) NOT NULL,

Student\_id varchar(255) NOT NULL,

PRIMARY KEY (Grade\_id),

FOREIGN KEY (Assignment\_id) REFERENCES Assignment(Assignment\_id),

FOREIGN KEY (Student\_id) REFERENCES Student(Student\_id)

);

CREATE TABLE Department(

Dept\_id varchar(255) NOT NULL,

Dept\_name varchar(255) NOT NULL,

Lecture\_id varchar(255) NOT NULL,

PRIMARY KEY (Dept\_id),

FOREIGN KEY (Lecture\_id) REFERENCES Lecture(Lecturer\_id)

);

CREATE TABLE Program(

Program\_id varchar(25) NOT NULL,

Program\_name varchar(255) NOT NULL,

Student\_id varchar(255) NOT NULL,

Dept\_id varchar(25) NOT NULL,

PRIMARY KEY (Program\_id),

FOREIGN KEY (Student\_id) REFERENCES Student(Student\_id),

FOREIGN KEY (Dept\_id) REFERENCES Department(Dept\_id)

);

CREATE TABLE Enrol(

Student\_id varchar(255) NOT NULL,

Course\_id varchar(255) NOT NULL,

Grade INT NOT NULL,

PRIMARY KEY ( Student\_id, Course\_id),

FOREIGN KEY (Student\_id) REFERENCES Student(Student\_id),

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

);

CREATE TABLE Must\_take(

Course\_id VARCHAR (255) NOT NULL,

Department\_id VARCHAR (255) NOT NULL,

PRIMARY KEY (Course\_id, Department\_id) ,

FOREIGN KEY (Department\_id) REFERENCES Program(Dept\_id),

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

);

CREATE TABLE Teach\_connect(

Course\_id varchar(255) NOT NULL,

Lecturer\_id varchar(255) NOT NULL,

PRIMARY KEY (Course\_id,Lecturer\_id),

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

FOREIGN KEY (Lecturer\_id) REFERENCES Lecture(Lecturer\_id)

);