# DDL commands for f16g324 DB-Schema

1)Table - *user*

```
CREATE TABLE `user` (
 `UIN` int(11) NOT NULL,
 `username` varchar(45) NOT NULL,
 `password` varchar(45) NOT NULL,
 `firstname` varchar(45) NOT NULL,
 `lastname` varchar(45) NOT NULL,
 `role` varchar(45) DEFAULT NULL,
 PRIMARY KEY (`UIN`),
 UNIQUE KEY `username_UNIQUE` (`username`),
 UNIQUE KEY `UIN_UNIQUE` (`UIN`))
```

2)Table – *student*

```
CREATE TABLE `student` (
 `student_uin_fk` int(11) NOT NULL,
 `firstname` varchar(45) NOT NULL,
 `lastname` varchar(45) NOT NULL,
 `username_fk` varchar(45) NOT NULL,
 `lastaccessedon` varchar(45) DEFAULT NULL,
 `testscore_json` varchar(2000) DEFAULT NULL,
 UNIQUE KEY `student_uin_fk_UNIQUE` (`student_uin_fk`),
 KEY `username_idx` (`username_fk`),
 KEY `student_id_idx` (`student_uin_fk`,`username_fk`),
 CONSTRAINT `student_id` FOREIGN KEY (`student_uin_fk`) REFERENCES `user` (`UIN`),
 CONSTRAINT `username_fk` FOREIGN KEY (`username_fk`) REFERENCES `user` (`username`))
```

3)Table - *course*

```
CREATE TABLE `course` (
 `crn` int(11) NOT NULL,
 `coursecode` int(11) NOT NULL,
 `coursename` varchar(45) NOT NULL,
 `coursedescription` varchar(500) DEFAULT NULL,
 PRIMARY KEY (`crn`),
 UNIQUE KEY `crn_UNIQUE` (`crn`))
```

4)Table - *test*

```
CREATE TABLE `test` (
 `testnumber` int(11) NOT NULL,
 `crn` int(11) NOT NULL,
 `coursecode` int(11) NOT NULL,
 `startdate` date NOT NULL,
 `enddate` date NOT NULL,
 PRIMARY KEY (`testnumber`),
 UNIQUE KEY `testnumber_UNIQUE` (`testnumber`),
 KEY `crn_idx` (`crn`),
 CONSTRAINT `crn` FOREIGN KEY (`crn`) REFERENCES `course` (`crn`))
```

5)Table - *question*

```
CREATE TABLE `question` (
 `id` int(11) NOT NULL AUTO_INCREMENT,
 `testid` int(11) NOT NULL,
 `questiontype` varchar(15) DEFAULT NULL,
 `questiontext` varchar(1000) NOT NULL,
 `correctanswer` varchar(100) NOT NULL,
 `tolerance` double DEFAULT NULL,
 PRIMARY KEY (`id`),
 UNIQUE KEY `questiontext_UNIQUE` (`questiontext`),
 KEY `testid_idx` (`testid`),
 CONSTRAINT `testid` FOREIGN KEY (`testid`) REFERENCES `test` (`testnumber`))
```