**9/16/2019**

MySQL creation script: [Createtoyu.sql.txt](http://dcm.uhcl.edu/yue/courses/itec3335/current/notes/query/Createtoyu.sql.txt).

Download and save as .sql file and open with a text editor.

**CREATE TABLE IF NOT EXISTS grade (**

 **grade VARCHAR(2),**

 **gradePoint DECIMAL(5,4),**

 **CONSTRAINT Grade\_grade\_pk PRIMARY KEY (grade)**

**);**

Command line:

Show databases;

Use toyu;

Use toyu as the detault db during the session.

Full name: toyu.student

Partial name: student

Show tables;

CREATE TABLE IF NOT EXISTS grade (

 grade VARCHAR(2),

 gradePoint DECIMAL(5,4),

 CONSTRAINT Grade\_grade\_pk PRIMARY KEY (grade)

);

Example of Data Definition Language (DDL): structure/schema definition.

-- population by insertion. Data manipulation language

INSERT INTO Grade VALUES

 ('A',4),('A-',3.6667),('B+',3.3333),('B',3),('B-',2.6667),

 ('C+',2.3333),('C',2),('C-',1.6667),

 ('D+',1.3333),('D',1),('D-',0.6667),('F',0),

 ('WX', NULL);

mysql> SELECT \* from school;

+------------+-------------------------------+

| schoolCode | schoolName |

+------------+-------------------------------+

| BUS | Business |

| LAW | College of Law |

| EDU | Education |

| HSH | Human Sciences and Humanities |

| CSE | Science and Engineering |

+------------+-------------------------------+

5 rows in set (0.00 sec)

mysql> INSERT INTO school VALUES ('BUS', 'College of Busy People');

ERROR 1062 (23000): Duplicate entry 'BUS' for key 'PRIMARY'

mysql>

Data Problem:



Analysis:

[1] Output:

1. Fname: student.fname
2. LName: student.lname
3. Major: department.deptName

[2] Source instances:

1. Student
2. Department

[3] Conditions:

1. Join conditions: student.major = department.deptCode
2. Problem condition: minor in ITEC
	1. Student.minor = ‘ITEC’

SELECT DISTINCT – 2. output column
FROM – 1. source
WHERE -- 3. conditions