TABLE MANIPULATION

1.) We can create database tables with the help of the CREATE TABLE statement:

CREATE TABLE STUDENT (
  student_id SMALLINT UNSIGNED,
  student_name VARCHAR(30),
  gender CHAR(1),
  PRIMARY KEY(student_id)
);

2.) We can insert new items into the database with the help of the INSERT statement. Usually we specify the database columns as well:

INSERT INTO STUDENT(student_id,student_name,gender) VALUES(1,'Joe Smith','M')

3.) We can remove an item or row from a database table with the help of the DELETE statement:

DELETE FROM STUDENT WHERE student_id = 1;

4.) We can update a row with the help of the UPDATE statement:

UPDATE STUDENT SET student_name='Annie' WHERE student_id=1;

5.) We can alter a given database table with the help of the ALTER statement: we can add an additional column as well as we can remove a given column:

ALTER TABLE STUDENT ADD university VARCHAR(20);

ALTER TABLE STUDENT DROP university;

6.) We can get rid of a given database table as well as get rid of the database itself with the DROP keyword:

DROP TABLE STUDENT;

DROP DATABASE TEST;

Other useful commands:

/* this is how we create the database called TEST
CREATE DATABASE TEST;

/* this is how we tell SQL that we will manipulate TEST database
USE DATABASE TEST;

/* this is how we get description of the STUDENT database table
DESC STUDENT;

/* tell SQL to list all the existing databases
SHOW DATABASES;

/* tell SQL to list all the existing tables in a database
SHOW TABLES;