Assignment 2

Creating db and tables

create database SchoolDB;

```
mysql> create database SchoolDB;
Query OK, 1 row affected (0.01 sec)
```

use SchoolDB;

```
mysql> use SchoolDB;
Database changed
mysql>
```

creating Students table

```
create table Students(
    student_id int primary key,
    name varchar(50),
    age int,
    grade varchar(10)
);
```

```
mysql> create table Students(
    ->          student_id int primary key,
    ->          name varchar(50),
    ->          age int,
    ->          grade varchar(10)
    ->     );
Query OK, 0 rows affected (0.03 sec)
```

inserting data in Students table

```
insert into Students (student_id,name,age,grade) values
(1,"Alice",14,"8th"),
(2,"Bob",15,"9th"),
(3,"Charlie",13,"7th"),
(4,"David",14,"8th"),
(5,"Eva",15,"9th"),
(6,"Frank",16,"10th"),
(7,"Grace",12,"6th"),
(8,"Helen",14,"8th");
```

```
+------------+---------+------+-------+
| student_id | name    | age  | grade |
+------------+---------+------+-------+
|          1 | Alice   |   14 | 8th   |
|          2 | Bob     |   15 | 9th   |
|          3 | Charlie |   13 | 7th   |
|          4 | David   |   14 | 8th   |
|          5 | Eva     |   15 | 9th   |
|          6 | Frank   |   16 | 10th  |
|          7 | Grace   |   12 | 6th   |
|          8 | Helen   |   14 | 8th   |
+------------+---------+------+-------+
```

Questions

1. Select all records from 'Students'.

```
select *
from Students;
```

```
+------------+---------+------+-------+
| student_id | name    | age  | grade |
+------------+---------+------+-------+
|          1 | Alice   |   14 | 8th   |
|          2 | Bob     |   15 | 9th   |
|          3 | Charlie |   13 | 7th   |
|          4 | David   |   14 | 8th   |
|          5 | Eva     |   15 | 9th   |
|          6 | Frank   |   16 | 10th  |
|          7 | Grace   |   12 | 6th   |
|          8 | Helen   |   14 | 8th   |
+------------+---------+------+-------+
```

2. Select names and grades of students only.

```
select name,grade
from Students;
```

```
+----------+--------+
| name     | grade  |
+----------+--------+
| Alice    | 8th    |
| Bob      | 9th    |
| Charlie  | 7th    |
| David    | 8th    |
| Eva      | 9th    |
| Frank    | 10th   |
| Grace    | 6th    |
| Helen    | 8th    |
+----------+--------+
```

3. Select students who are older than 14 years.

```
select name
from Students
where age > 14;
```

```
+-------+
| name  |
+-------+
| Bob   |
| Eva   |
| Frank |
+-------+
```

4. Select students in '8th' grade.

```
select *
from Students
where grade = "8th";
```

```
+------------+--------+------+-------+
| student_id | name   | age  | grade |
+------------+--------+------+-------+
|          1 | Alice  |   14 | 8th   |
|          4 | David  |   14 | 8th   |
|          8 | Helen  |   14 | 8th   |
+------------+--------+------+-------+
```

5. Update Alice age from 14 to 15.

```
update Students
set age = 15
```

```
where name = "Alice";
```

```
+------------+---------+------+-------+
| student_id | name    | age  | grade |
+------------+---------+------+-------+
|          1 | Alice   |   15 | 8th   |
|          2 | Bob     |   15 | 9th   |
|          3 | Charlie |   13 | 7th   |
|          4 | David   |   14 | 8th   |
|          5 | Eva     |   15 | 9th   |
|          6 | Frank   |   16 | 10th  |
|          7 | Grace   |   12 | 6th   |
|          8 | Helen   |   14 | 8th   |
+------------+---------+------+-------+
```

6. Delete a student record with student_id = 3.

```
delete
from Students
where student_id = 3;
```

```
+------------+-------+------+-------+
| student_id | name  | age  | grade |
+------------+-------+------+-------+
|          1 | Alice |   15 | 8th   |
|          2 | Bob   |   15 | 9th   |
|          4 | David |   14 | 8th   |
|          5 | Eva   |   15 | 9th   |
|          6 | Frank |   16 | 10th  |
|          7 | Grace |   12 | 6th   |
|          8 | Helen |   14 | 8th   |
+------------+-------+------+-------+
```

7. Delete all students in '7th' grade.

```
delete
from Students
where grade = "7th";
```

```
+------------+--------+------+-------+
| student_id | name   | age  | grade |
+------------+--------+------+-------+
|          1 | Alice  |   15 | 8th   |
|          2 | Bob    |   15 | 9th   |
|          4 | David  |   14 | 8th   |
|          5 | Eva    |   15 | 9th   |
|          6 | Frank  |   16 | 10th  |
|          7 | Grace  |   12 | 6th   |
|          8 | Helen  |   14 | 8th   |
+------------+--------+------+-------+
```

8. Write an SQL query to drop the 'Students' table from the database.

```
drop table Students;
```

```
mysql> show tables;
Empty set (0.04 sec)
```