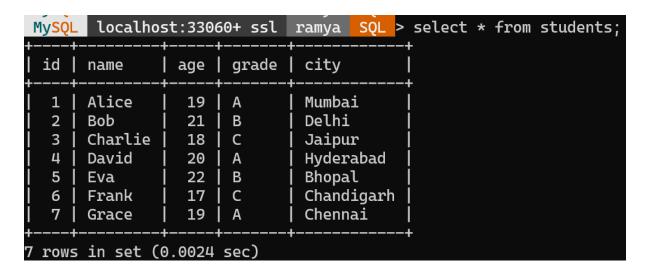
Task:

```
CREATE TABLE Students (
id INT PRIMARY KEY,
name VARCHAR(50),
age INT,
grade CHAR(1),
city VARCHAR(50)
);

INSERT INTO Students (id, name, age, grade, city) VALUES
(1, 'Alice', 19, 'A', 'Mumbai'),
(2, 'Bob', 21, 'B', 'Delhi'),
(3, 'Charlie', 18, 'C', 'Jaipur'),
(4, 'David', 20, 'A', 'Hyderabad'),
(5, 'Eva', 22, 'B', 'Bhopal'),
(6, 'Frank', 17, 'C', 'Chandigarh'),
(7, 'Grace', 19, 'A', 'Chennai');
```



1. Retrieve all students whose age is greater than 18.

Select * from students where age>18;

```
MySQL localhost:33060+ ssl ramya SQL > select * from students where age>18;
 id |
      name
              age
                    grade |
                            city
      Alice
  1
               19
                    Α
                            Mumbai
               21
                            Delhi
  2
      Bob
                    В
  4
      David
               20
                            Hyderabad
                    Α
  5
      Eva
               22
                    В
                            Bhopal
      Grace
               19
                    Α
                            Chennai
 rows in set (0.0204 sec)
```

2. Retrieve students whose grade is not equal to 'A'.

Select * from students where grade!='A';

```
MySQL localhost:33060+ ssl ramya SQL > select * from students where grade!='A';
 id | name
                age | grade |
                              city
                              Delhi
  2
      Bob
                 21
                      В
      Charlie
                 18
                      C
                              Jaipur
  3
      Eva
                 22
                      В
                              Bhopal
      Frank
                 17
                      С
                              Chandigarh
 rows in set (0.0015 sec)
```

3. Retrieve students whose age is between 18 and 21 (inclusive).

Select * from students where age between 18 and 21;

```
localhost:33060+ ssl ramya SQL > select * from students where age between 18 and 21;
MySQL
               age grade
 id | name
                             city
      Alice
                 19 | A
                             Mumbai
                 21
                    l B
                             Delhi
  2
     Bob
  3 | Charlie
                 18
                    l c
                             Jaipur
     David
                 20
                             Hyderabad
                    A
                 19 | A
      Grace
                             Chennai
5 rows in set (0.0052 sec)
```

4. Retrieve students whose age is greater than 18 AND grade is 'A'. Select * from students where age>18 and grade='A';

5. Retrieve students from Delhi OR Jaipur.

select * from students where city='Delhi' or city='Jaipur';

6. Retrieve students who are NOT from Mumbai.

select * from students where city!='Mumbai';

```
MySQL localhost:33060+ ssl ramya SQL > select * from students where city!='Mumbai';
 id | name
                age | grade |
                              city
  2
      Bob
                 21 | B
                               Delhi
      Charlie
                 18
                     I C
                               Jaipur
      David
                               Hyderabad
                 20 | A
  5
                  22
                               Bhopal
      Eva
                     ΙВ
                               Chandigarh
      Frank
                  17
                      C
                               Chennai
      Grace
                 19 | A
6 rows in set (0.0014 sec)
```

7. Display each student's name and their age increased by 1.

Update students set age=age+1;

Select name, age from students;

```
MySQL localhost:33060+ ssl ramya SQL > update students set age=age+1;
Query OK, 7 rows affected (0.0347 sec)
Rows matched: 7 Changed: 7 Warnings: 0
MySQL localhost:33060+ ssl ramya SQL > select name,age from students;
 name
           age
 Alice
             20
 Bob
             22
 Charlie
             19
 David
             21
 Eva
             23
 Frank
             18
 Grace
             20
7 rows in set (0.0014 sec)
```

8. Retrieve students whose age multiplied by 2 is greater than 40.

Update students set age=age*2;

Select * from students where age>40;

```
MySQL localhost:33060+ ssl ramya SQL > update students set age=age*2;
Query OK, 7 rows affected (0.0088 sec)
Rows matched: 7 Changed: 7 Warnings: 0
MySQL localhost:33060+ ssl ramya
                                     SQL > select * from students where age>40;
 id
      name
              age
                     grade
                             city
  2
       Bob
                44
                     В
                             Delhi
  4
       David
                             Hyderabad
                42
                     Α
      Eva
                46
                     В
                             Bhopal
3 rows in set (0.0018 sec)
```

9. Retrieve students whose name starts with 'A'.

select * from students where name like 'A%';

10. Retrieve students whose city ends with 'pur'.

select * from students where city like '%pur';

11. Retrieve students whose name contains the letter 'a' (case-insensitive). select * from students where lower(name) like '%a%';

