1. To Create Database/Scheme

```
CREATE SCHEMA `bootcamp` ;
```

2. Create a table with date database with columns: Id, firstName, lastName, age, department.

```
CREATE TABLE `bootcamp`.`database` (
  `id` INT NOT NULL,
  `firstName` VARCHAR(45) NOT NULL,
  `lastName` VARCHAR(45) NOT NULL,
  `age` INT NOT NULL,
  `department` VARCHAR(45) NOT NULL,
  PRIMARY KEY (`id`));
```

3. Add one or two columns to the table.

```
alter table bootcamp.database add address VARCHAR(40);
alter table bootcamp.database add date date;
```

4. Drop one column for the table.

```
alter table bootcamp.database drop column date;
```

5. Update firstName and lastName of the table with 5 records?

--Before completing this, I first added values to our database.

```
INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES ('123',
'SHEKHAR', 'BASNET', '12', 'engr', 'npl');

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES ('124',
'ram', 'thapa', '13', 'it', 'ind');

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES ('125',
'hari', 'dhital', '82', 'back', 'kora');

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES ('126',
'gita', 'oli', '46', 'font', 'japan');
```

```
INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’127’,
’ravi’, ’pand’, ’48’, ’out’, ’usa’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’128’,
’sita’, ’rimal’, ’85’, ’in’, ’canada’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’129’,
’anil’, ’adhi’, ’42’, ’date’, ’brazil’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’130’,
’bharat’, ’poudel’, ’41’, ’stair’, ’germeny’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’131’,
’sunil’, ’toki’, ’30’, ’ship’, ’ukraine’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’132’,
’rabin’, ’hun’, ’31’, ’driver’, ’russia’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’133’,
’rajin’, ’solti’, ’32’, ’logi’, ’india’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’134’,
’vicky’, ’dev’, ’35’, ’adm’, ’turkey’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’135’,
’vedant’, ’khatri’, ’71’, ’user’, ’qatar’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’136’,
’ronal’, ’ghimire’, ’24’, ’demo’, ’usa’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’137’,
’uniq’, ’sunar’, ’23’, ’skill’, ’bhutan’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’138’,
’raj’, ’thapa’, ’22’, ’account’, ’maldives’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’139’,
’kumar’, ’stha’, ’21’, ’market’, ’nepal’);

INSERT INTO `bootcamp`.`database` (`id`, `firstName`,
`lastName`, `age`, `department`, `address`) VALUES (’140’,
’ganesh’, ’sonar’, ’20’, ’brand’, ’nepal’);
```

-- Now updating --

-- record 1 --

```
update bootcamp.database
set firstName =’allen’,
     lastName=’Jonas’
where id = 125;
```

-- record 2 --

```
update bootcamp.database
set firstName =’gopal’,
     lastName=’adhi’
where id = 126;
```

-- record 3 --

```
update bootcamp.database
set firstName =’shiva’,
     lastName=’hamal’
where id = 127;
```

-- record 4 --

```
update bootcamp.database
set firstName =’anmol’,
     lastName=’gupta’
where id = 128;
```

-- record 5 --

```
update bootcamp.database
set firstName =’subash’,
     lastName=’suyal’
where id = 139;
```

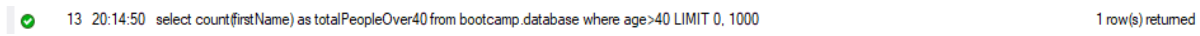
✔	5	20:10:35	update bootcamp.database set firstName ='allen', lastName='Jonas' where id = 125	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
✔	6	20:10:42	update bootcamp.database set firstName ='gopal', lastName='adhi' where id = 126	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.016 sec
✔	7	20:10:45	update bootcamp.database set firstName ='shiva', lastName='hamal' where id = 127	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
✔	8	20:10:48	update bootcamp.database set firstName ='anmol', lastName='gupta' where id = 128	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec
✔	9	20:10:51	update bootcamp.database set firstName ='subash', lastName='suyal' where id = 139	1 row(s) affected Rows matched: 1 Changed: 1 Warnings: 0	0.000 sec

6. Delete 4 rows from the records whose age is below 18 years?

```
delete from bootcamp.database
where age<18;
```

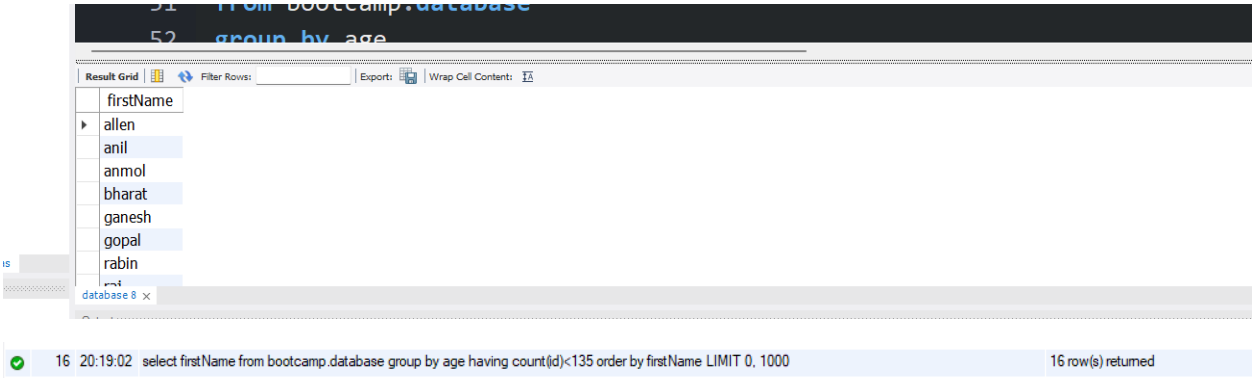

7. Use Aggregate function to the age column in the table

```
select count(age) as totalPeopleOver40
from bootcamp.database
where age>40;
```



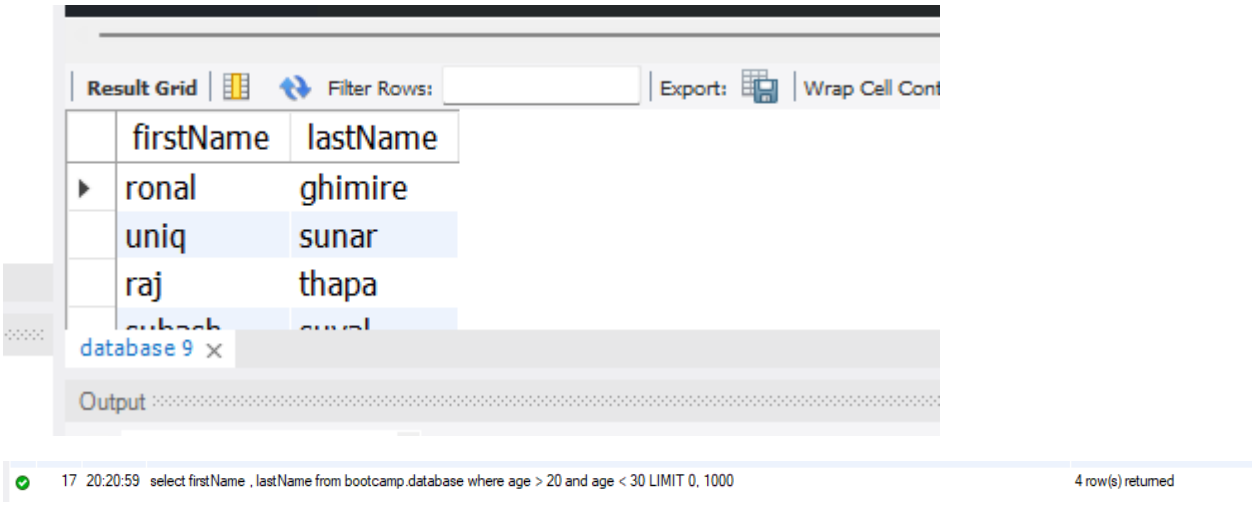
8. Use where clause, having, order by, group by

```
select firstName
from bootcamp.database
group by age
having count(id)<135
order by firstName;
```



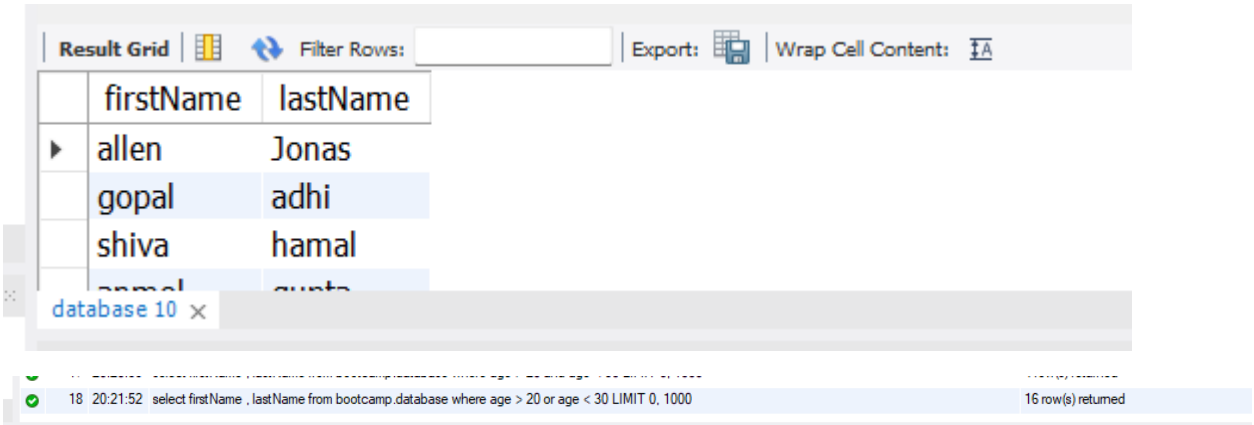
9. Show the difference between AND and OR logical operator?
   - Use of AND

```
select firstName , lastName
from bootcamp.database
where age > 20 and age < 30;
```



- User of OR

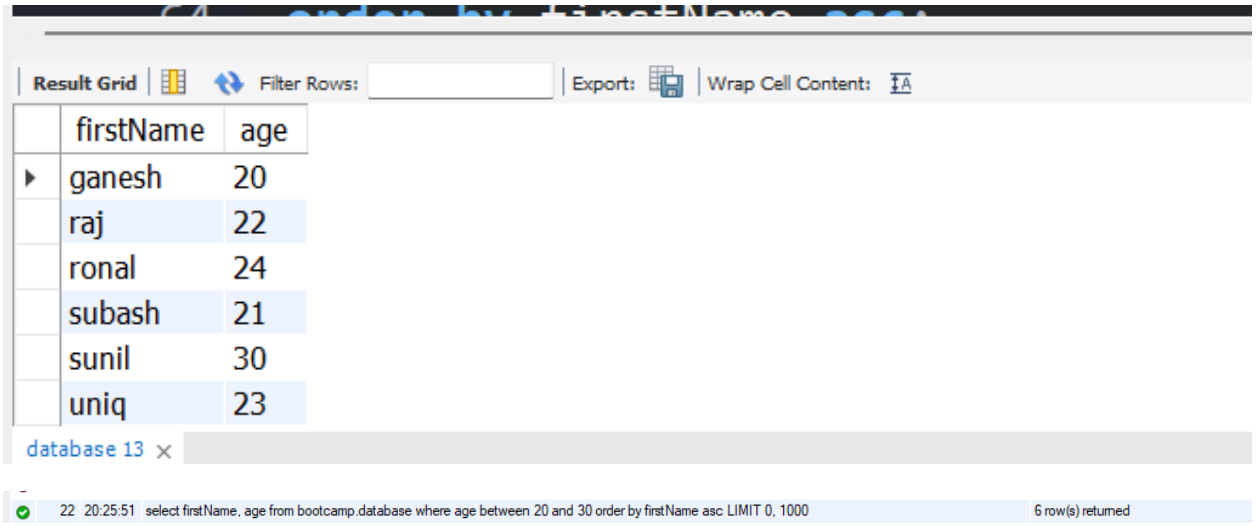
```
select firstName , lastName
from bootcamp.database
where age > 20 or age < 30;
```



10. Why do we use between and like in mysql? What is the difference in IN and NOT IN?

- Use of between to print the value which is between two numbers

```
select firstName, age
from bootcamp.database
where age between 20 and 30
order by firstName asc;
```

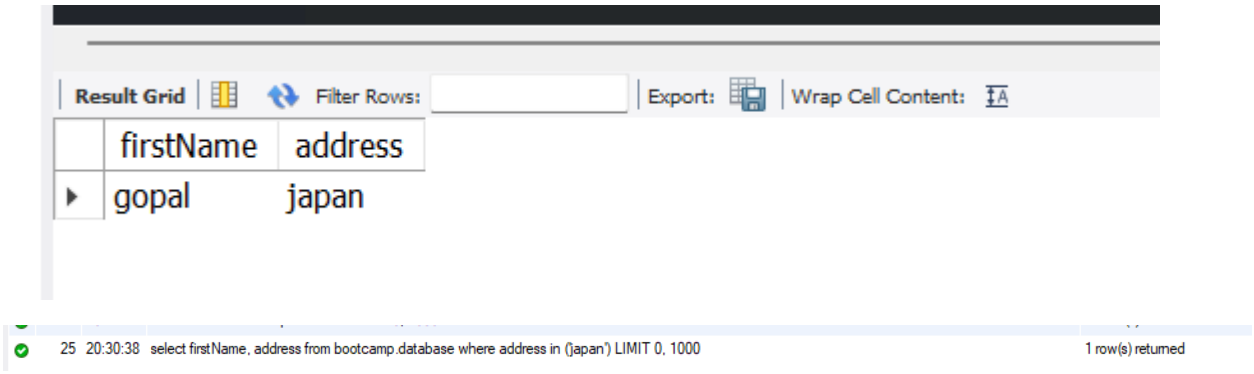


- Printing values using LIKE which will print the only if it matchaes value which we put between %[string]%

```
select firstName, age
from bootcamp.database
where firstName like '%raj%';
```

-- Using IN to find people living in japan

```
select firstName, address
from bootcamp.database
where address in ('japan');
```



-- Using IN to find people not living in nepal

```
select firstName, address
from bootcamp.database
where address not in ('nepal');
```