```
mysql> CREATE table student(roll_noint,name varchar(20),age int);
Query OK, 0 rows affected (0.02 sec)


mysql> INSERT into student values('1','ram','20');
Query OK, 1 row affected (0.01 sec)


mysql> INSERT into student values('3','radha','20');
Query OK, 1 row affected (0.01 sec)


mysql> INSERT into student values('2','pavan','19');
Query OK, 1 row affected (0.01 sec)


mysql> INSERT into student values('5','vishal','18');
Query OK, 1 row affected (0.01 sec)


mysql> DESC student;
+---------+-------------+------+-----+---------+-------+
| Field   | Type        | Null | Key | Default | Extra |
+---------+-------------+------+-----+---------+-------+
| roll_no | int         | YES  |     | NULL    |       |
| name    | varchar(20) | YES  |     | NULL    |       |
| age     | int         | YES  |     | NULL    |       |
+---------+-------------+------+-----+---------+-------+
3 rows in set (0.00 sec)


mysql> ALTER TABLE student MODIFY roll_no int primary key;
Query OK, 0 rows affected (0.06 sec)
Records: 0  Duplicates: 0  Warnings: 0


mysql> ALTER TABLE student ADD address varchar(20) NOT NULL;
Query OK, 0 rows affected (0.01 sec)
```

Records: 0 Duplicates: 0 Warnings: 0

mysql> ALTER TABLE student ADD email_idvarchar(20);

Query OK, 0 rows affected (0.01 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> select * from student;

```
+---------+--------+------+---------+----------+
| roll_no | name   | age  | address | email_id |
+---------+--------+------+---------+----------+
|       1 | ram    |   20 |         | NULL     |
|       2 | pavan  |   19 |         | NULL     |
|       3 | radha  |   20 |         | NULL     |
|       5 | vishal |   18 |         | NULL     |
+---------+--------+------+---------+----------+
```

4 rows in set (0.00 sec)

mysql> CREATE INDEX college on student(name,age);

Query OK, 0 rows affected (0.05 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql>CREATE UNIQUE INDEX branch on student(name,email_id);

Query OK, 0 rows affected (0.04 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> DESC student;

```
+----------+-------------+------+-----+---------+-------+
| Field    | Type        | Null | Key | Default | Extra |
+----------+-------------+------+-----+---------+-------+
| roll_no  | int         | NO   | PRI | NULL    |       |
| name     | varchar(20) | YES  | MUL | NULL    |       |
| age      | int         | YES  |     | NULL    |       |
| address  | varchar(20) | NO   |     | NULL    |       |
```

| email_id | varchar(20) | YES | | NULL | |

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

5 rows in set (0.00 sec)

mysql> select * from student;

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

| roll_no | name | age | address | email_id |

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

| 1 | ram | 20 | | NULL |

| 2 | pavan | 19 | | NULL |

| 3 | radha | 20 | | NULL |

| 5 | vishal | 18 | | NULL |

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

4 rows in set (0.00 sec)

mysql> SHOW INDEX FROM student;

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

| Table | Non_unique | Key_name | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type | Comment | Index_comment | Visible | Expression |

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

| student | 0 | PRIMARY | 1 | roll_no | A | 4 | NULL | NULL | | BTREE | | | YES | NULL |

| student | 0 | branch | 1 | name | A | 4 | NULL | NULL | YES | BTREE | | | YES | NULL |

| student | 0 | branch | 2 | email_id | A | 4 | NULL | NULL | YES | BTREE | | | YES | NULL |

| student | 1 | college | 1 | name | A | 4 | NULL | NULL | YES | BTREE | | | YES | NULL |

| student | 1 | college | 2 | age | A | 4 | NULL | NULL | YES | BTREE | | | YES | NULL |

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

5 rows in set (0.01 sec)

mysql> ALTER TABLE student DROP INDEX college;

Query OK, 0 rows affected (0.02 sec)

Records: 0 Duplicates: 0 Warnings: 0

mysql> CREATE VIEW division AS SELECT age,name FROM student WHERE roll_no=1;

Query OK, 0 rows affected (0.01 sec)

mysql> select * from age,name;

ERROR 1146 (42S02): Table 'mansid.age' doesn't exist

mysql> select * from [age,name];

ERROR 1064 (42000): You have an error in your SQL syntax; check the manual that corresponds to your MySQL server version for the right syntax to use near '[age,name]' at line 1

mysql> select * from student;

```
+---------+--------+------+---------+----------+
| roll_no | name   | age  | address | email_id |
+---------+--------+------+---------+----------+
|       1 | ram    |  20  |         | NULL     |
|       2 | pavan  |  19  |         | NULL     |
|       3 | radha  |  20  |         | NULL     |
|       5 | vishal |  18  |         | NULL     |
+---------+--------+------+---------+----------+
```

4 rows in set (0.00 sec)

mysql> commit;

Query OK, 0 rows affected (0.00 sec)