**1) Add Column :**

namrata=# alter table student add column email varchar(30);

ALTER TABLE

namrata=# select\*from student;

roll\_no | name | address | percentage | email

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

1 | Om | Nashik | 90 |

2 | Sai | Sangamner | 80 |

3 | Ram | Pune | 70 |

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**2) Drop Column:**

namrata=# alter table student drop column email;

ALTER TABLE

namrata=# select\*from student;

roll\_no | name | address | percentage

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

1 | Om | Nashik | 90

2 | Sai | Sangamner | 80

3 | Ram | Pune | 70

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**3)** namrata=# create table persons(id int not null,LastName varchar(50) not null,FirstName varchar(50)not null,Age int);

CREATE TABLE

namrata=# select\*from persons;

id | lastname | firstname | age

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

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**4)** namrata=# create table persons(id int not null,LastName varchar(50) not null,FirstName varchar(50)not null,Age int,constraint oit unique(id,LastName));

CREATE TABLE

namrata=# select\*from persons;

id | lastname | firstname | age

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

(0 rows)

namrata=# insert into persons values(101,'om','abc',18);

INSERT 0 1

namrata=# insert into persons values(102,'Sai','pqr',20);

INSERT 0 1

namrata=# insert into persons values(103,'ram','xyz',22);

INSERT 0 1

namrata=# select\*from persons;

id | lastname | firstname | age

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

101 | om | abc | 18

102 | Sai | pqr | 20

103 | ram | xyz | 22

(3 rows)

namrata=# alter table persons drop constraint oit;

ALTER TABLE

namrata=# select\*from persons;

id | lastname | firstname | age

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

101 | om | abc | 18

102 | Sai | pqr | 20

103 | ram | xyz | 22

(3 rows)

**\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\***

**5) Emp table:**

namrata=# create table emp(e\_no int primary key,e\_name varchar(30),designation varchar(20),salary float,date\_of\_joining varchar(30));

CREATE TABLE

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining

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

(0 rows)

namrata=# insert into emp values(1,'.mr.advait','Assistant',54000,'18/01/2024');

INSERT 0 1

namrata=# insert into emp values(2,'.mr.Raghav','Manager',55000,'04/04/2024');

INSERT 0 1

namrata=# insert into emp values(3,'.mr.Sai','Assistant',56000,'28/04/2024');

INSERT 0 1

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining

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

1 | .mr.advait | Assistant | 54000 | 18/01/2024

2 | .mr.Raghav | Manager | 55000 | 04/04/2024

3 | .mr.Sai | Assistant | 56000 | 28/04/2024

(3 rows)

namrata=# alter table emp add column email varchar(30);

ALTER TABLE

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email

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

1 | .mr.advait | Assistant | 54000 | 18/01/2024 |

2 | .mr.Raghav | Manager | 55000 | 04/04/2024 |

3 | .mr.Sai | Assistant | 56000 | 28/04/2024 |

(3 rows)

namrata=# update emp set email='mradvait@gmail.com'where e\_no=1;

UPDATE 1

namrata=# update emp set email='orangeitech@gmail.com';

UPDATE 3

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email

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

2 | .mr.Raghav | Manager | 55000 | 04/04/2024 | orangeitech@gmail.com

3 | .mr.Sai | Assistant | 56000 | 28/04/2024 | orangeitech@gmail.com

1 | .mr.advait | Assistant | 54000 | 18/01/2024 | orangeitech@gmail.com

(3 rows)

namrata=# update emp set salary=salary+(salary\*0.05);

UPDATE 3

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email

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

2 | .mr.Raghav | Manager | 57750 | 04/04/2024 | orangeitech@gmail.com

3 | .mr.Sai | Assistant | 58800 | 28/04/2024 | orangeitech@gmail.com

1 | .mr.advait | Assistant | 56700 | 18/01/2024 | orangeitech@gmail.com

(3 rows)

namrata=# update emp set designation='senior manager'where e\_name='.mr.Raghav';

UPDATE 1

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email

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

3 | .mr.Sai | Assistant | 58800 | 28/04/2024 | orangeitech@gmail.com

1 | .mr.advait | Assistant | 56700 | 18/01/2024 | orangeitech@gmail.com

2 | .mr.Raghav | senior manager | 57750 | 04/04/2024 | orangeitech@gmail.com

(3 rows)

namrata=# update emp set designation='senior Assis manager'where designation='Assistant';

UPDATE 2

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email

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

2 | .mr.Raghav | senior manager | 57750 | 04/04/2024 | orangeitech@gmail.com

3 | .mr.Sai | senior Assis manager | 58800 | 28/04/2024 | orangeitech@gmail.com

1 | .mr.advait | senior Assis manager | 56700 | 18/01/2024 | orangeitech@gmail.com

namrata=# alter table emp add city varchar(40);

ALTER TABLE

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email | city

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

2 | .mr.Raghav | senior manager | 57750 | 04/04/2024 | orangeitech@gmail.com |

3 | .mr.Sai | senior Assis manager | 58800 | 28/04/2024 | orangeitech@gmail.com |

1 | .mr.advait | senior Assis manager | 56700 | 18/01/2024 | orangeitech@gmail.com |

namrata=# update emp set city='pune';

UPDATE 3

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email | city

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

2 | .mr.Raghav | senior manager | 57750 | 04/04/2024 | orangeitech@gmail.com | pune

3 | .mr.Sai | senior Assis manager | 58800 | 28/04/2024 | orangeitech@gmail.com | pune

1 | .mr.advait | senior Assis manager | 56700 | 18/01/2024 | orangeitech@gmail.com | pune

(3 rows)

namrata=# update emp set city='mumbai'where e\_name='.mr.Raghav';

UPDATE 1

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email | city

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

3 | .mr.Sai | senior Assis manager | 58800 | 28/04/2024 | orangeitech@gmail.com | pune

1 | .mr.advait | senior Assis manager | 56700 | 18/01/2024 | orangeitech@gmail.com | pune

2 | .mr.Raghav | senior manager | 57750 | 04/04/2024 | orangeitech@gmail.com | mumbai

(3 rows)

namrata=# update emp set salary=salary-(salary\*0.05)where designation='Ceo'and city='pune';

UPDATE 1

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email | city

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

2 | .mr.Raghav | senior manager | 57750 | 04/04/2024 | orangeitech@gmail.com | mumbai

3 | .mr.Sai | senior Assis manager | 58800 | 28/04/2024 | orangeitech@gmail.com | delhi

1 | .mr.advait | Ceo | 53865 | 18/01/2024 | orangeitech@gmail.com | pune

(3 rows)

namrata=# alter table emp add column phone\_no int;

ALTER TABLE

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email | city | phone\_no

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

2 | .mr.Raghav | senior manager | 57750 | 04/04/2024 | orangeitech@gmail.com | mumbai |

3 | .mr.Sai | senior Assis manager | 58800 | 28/04/2024 | orangeitech@gmail.com | delhi |

1 | .mr.advait | Ceo | 53865 | 18/01/2024 | orangeitech@gmail.com | pune |

(3 rows)

namrata=# update emp set date\_of\_joining='15/06/2019' where e\_name='.mr.Raghav'or city='mumbai';

UPDATE 1

namrata=# select\*from emp;

e\_no | e\_name | designation | salary | date\_of\_joining | email | city | phone\_no

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

3 | .mr.Sai | senior Assis manager | 58800 | 28/04/2024 | orangeitech@gmail.com | delhi |

1 | .mr.advait | Ceo | 53865 | 18/01/2024 | orangeitech@gmail.com | pune |

2 | .mr.Raghav | senior manager | 57750 | 15/06/2019 | orangeitech@gmail.com | mumbai |

(3 rows)

namrata=# select\*from emp where e\_name='.mr.Sai';

e\_no | e\_name | designation | salary | date\_of\_joining | email | city | phone\_no

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

3 | .mr.Sai | senior Assis manager | 58800 | 28/04/2024 | orangeitech@gmail.com | delhi |

(1 row)

namrata=# select salary,designation from emp where e\_no=3;

salary | designation

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

58800 | senior Assis manager

(1 row)

namrata=# select\*from emp where designation='Ceo';

e\_no | e\_name | designation | salary | date\_of\_joining | email | city | phone\_no

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

1 | .mr.advait | Ceo | 53865 | 18/01/2024 | orangeitech@gmail.com | pune |

(1 row)

namrata=# select date\_of\_joining from emp where e\_no=1;

date\_of\_joining

-----------------

18/01/2024

(1 row)