**1) Add Column :**

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

ALTER TABLE

siddharth=# select\*from student;

roll\_no | name | address | percentage | email

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

1 | shubham | Nashik | 90 |

2 | amol | Sangamner | 80 |

3 | suraj | Pune | 70 |

**2) Drop Column:**

siddharth=# alter table student drop column email;

ALTER TABLE

siddharth=# select\*from student;

roll\_no | name | address | percentage

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

1 | shubham | Nashik | 90

2 | amol | Sangamner | 80

3 | suraj | Pune | 70

**3)**

siddharth=# create table persons(id int not null,LastName varchar(50)

not null,FirstName varchar(50)not null,Age int);

CREATE TABLE

siddharth=# select\*from persons;

id | lastname | firstname | age

**4)**

siddharth=# 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

siddharth=# select\*from persons;

id | lastname | firstname | age

(0 rows)

siddharth=# insert into persons values(101,'shubham','abc',18);

INSERT 0 1

siddharth=# insert into persons values(102,'amol','pqr',20);

INSERT 0 1

siddharth=# insert into persons values(103,'suraj','xyz',22);

INSERT 0 1

siddharth=# select\*from persons;

id | lastname | firstname | age

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

101 | shubham | abc | 18

102 | amol | pqr | 20

103 | suraj | xyz | 22

(3 rows)

siddharth =# alter table persons drop constraint oit;

ALTER TABLE

siddharth =# select\*from persons;

id | lastname | firstname | age

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

101 | shubahm | abc | 18

102 | amol | pqr | 20

103 | suraj | xyz | 22

(3 rows)

**5) Emp table:**

siddharth =# create table emp(e\_no int primary key,e\_name varchar(30),

designation varchar(20),salary float,date\_of\_joining varchar(30));

CREATE TABLE

siddharth =# select\*from emp;

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

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

(0 rows)

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

INSERT 0 1

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

INSERT 0 1

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

INSERT 0 1

siddharth =# 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)

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

ALTER TABLE

siddharth =# 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)

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

UPDATE 1

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

UPDATE 3

siddharth =# 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)

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

UPDATE 3

siddharth =# 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)

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

UPDATE 1

siddharth =# 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)

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

UPDATE 2

siddharth =# 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

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

ALTER TABLE

siddharth =# 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 |

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

UPDATE 3

siddharth =# 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)

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

UPDATE 1

siddharth =# 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)

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

UPDATE 1

siddharth =# 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)

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

ALTER TABLE

siddharth =# 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)

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

UPDATE 1

siddharth =# 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)

siddharth =# update emp set salary=salary+(salary\*0.05)where salary>'55000' or phone\_no=12345678;

UPDATE 2

siddharth =# select\*from emp;

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

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

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

3 | .mr.Sai | senior Assis manager | 61740 | 28/04/2024 | orangeitech@gmail.com | delhi |

2 | .mr.Raghav | senior manager | 60637.5 | 15/06/2019 | orangeitech@gmail.com | mumbai |

(3 rows)

siddharth =# 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)

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

salary | designation

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

58800 | senior Assis manager

(1 row)

siddharth =# 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)

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

date\_of\_joining

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

18/01/2024

(1 row)