

```

## creating a table
CREATE TABLE Persons (
    PersonID int,
    LastName varchar(255),
    FirstName varchar(255),
    Address varchar(255),
    CityName varchar(255)
);
# reading data from table
select * from Persons;

#inserting data into table
#INSERT INTO table_name (column1, column2, column3, ...) VALUES (value1, value2, value3, ...);

INSERT INTO Persons (PersonId, FirstName, LastName, Address, CityName)
VALUES (1, "Praveen", "Achraya", "Main road", "Bangalore");

INSERT INTO Persons (PersonId, FirstName, Address, CityName)
VALUES (2, "Chirag", "Main road", "Bangalore");

INSERT INTO Persons (PersonId, FirstName, LastName, Address, CityName)
VALUES (3, "Praveen", "Achraya", "Main road", "Bangalore");

INSERT INTO Persons
VALUES (4, "Patel", "Suruchi", "Main road", "Bangalore");

INSERT INTO Persons (FirstName, LastName, Address, CityName)
VALUES ("Surekha", "Siriya", "Main road", "Bangalore");

INSERT INTO Persons (PersonId, FirstName,
    LastName, Address, CityName)
VALUES (5, "Shubham",
    "Pawar", "MG road", "Pune");

INSERT INTO Persons (PersonId, FirstName,
    LastName, Address, CityName)
VALUES (6, "Shivam",
    "Baghel", "MG road", "Pune");

INSERT INTO Persons (PersonId, FirstName,
    LastName, Address, CityName)
VALUES (7, "Bhaskar",
    "HG", "Pimpri", "Pune");

```

```
INSERT INTO Persons (PersonId, FirstName,  
    LastName, Address, CityName)  
VALUES (8, "Kranthi Kumar",  
    "HG", "GachiBowli", "Hyderabad");
```

```
INSERT INTO Persons (PersonId, FirstName,  
    LastName, Address, CityName)  
VALUES (9, "Soleh Firdous",  
    "HG", "Srinagar", "Kashmir");
```

```
#deletion  
#delete from [table_name] where [condition] (optional)  
delete from Persons where PersonID = 1;  
delete from Persons;
```

```
#Reading the data from table  
# select {columns}  
# from {table_name}  
# where {conditions}  
# order by {columns}
```

```
# select {columns} -> filtering columns  
# select * -> all columns
```

```
# where {conditions} -> filters on row data
```

```
#reading all the data(all columns and rows)  
select * from Persons;
```

```
select PersonId, FirstName, CityName from Persons;
```

```
select PersonId, FirstName, CityName from  
Persons order by PersonId;
```

```
select PersonId, FirstName, CityName from  
Persons order by PersonId desc;
```

```
select PersonId, FirstName, CityName from  
Persons where CityName = 'Bangalore'  
order by PersonId;
```

```
#for all people in Pune, take their ID, multiply  
#by 10, and show that as bank Balance
```

```
select PersonId, PersonId * 10 as BankBalance,  
  FirstName, CityName from  
  Persons where CityName = 'Pune'  
order by PersonId;
```

```
select * from Persons;
```

```
#we just want to know the citynames for all persons  
select CityName from Persons;
```

```
#just get the distinct cityName  
select distinct cityName from persons;
```

```
#SQL is case insensitive  
# =, !=, > >=, < <=  
select * from Persons where PersonId >= 5  
order by PersonId;
```

```
select * from Persons where PersonId <8;
```

```
# AND, OR, NOT  
select * from Persons where PersonId < 8 AND  
  LastName is not null order by PersonId;
```

```
select * from Persons where PersonId < 8 AND  
  LastName is null order by PersonId;
```

```
#get all persons with id <=3 or >=6 and remove null ids  
select * from Persons where (PersonId <=3)  
or (PersonId >=6) and (PersonId is not null);
```

```
#select all persons with id -> 1,2,6,8,9,12  
# in  
select * from Persons  
where PersonId in (1,2,6,8,9,12);
```

```
select * from Persons  
where PersonId in (1,2,3) or  
  PersonId not in (5,6,7);
```

```
#between a and b -> inclusive  
# >= a and <= b  
select * from Persons where  
  PersonId between 4 and 8 order by PersonId;
```

#LIKE, How to update table, Primary Key,
date