

DML(Data manipulation Language)

```
-- create database sandeep
```

```
-- create table
```

```
-- create table users(
```

```
-- user_id INTEGER PRIMARY KEY auto_increment,
```

```
-- name varchar(255) not null,
```

```
-- email varchar(255) not null unique,
```

```
-- password varchar(255) not null
```

```
-- )
```

```
-- insert single value
```

```
-- insert into campusx.users (user_id,name,email,password)
```

```
-- values(null,'nitish','nitish@gmail','1234')
```

```
-- insert into campusx.users
```

```
-- values(null,'ankit','ankit@gmail','5678')
```

```
-- insert into campusx.users (email,password)
```

```
-- values('amit@gmail.com','1234')
```

```
-- insert into campusx.users(password,name,email)
```

```
-- values ('1234','sandeep','sandeep@gmail.com')
```

```
-- inserting multiple values
```

```
-- insert into campusx.users values
```

```
-- (null,'rishabh','rishabh@gmail.com','12345'),
```

```
-- (null,'rohan','rohan@gmail.com','12345'),
```

```
-- (null,'sohan','sohan@gmail.com','12345')
```

```
# to fetch everything
-- select * from campusx.smartphones where 1
#to filter column
-- select model,price,rating from campusx.smartphones

-- select model,battery_capacity,os from
campusx.smartphones
-- alias renaming column
-- select os as 'operating System' ,model,battery_capacity as
'mah' from campusx.smartphones

-- creating expression using cols
-- select model,
-- sqrt(resolution_width*resolution_width +
resolution_height*resolution_height)/screen_size as 'ppi'
-- from campusx.smartphones

-- select model,rating/10 from campusx.smartphones

-- constant
-- select model,'smartphone' as 'type' from
campusx.smartphones

-- Distinct(unique) values from a col
-- select distinct(brand_name) as 'All brands'
-- from campusx.smartphones

-- select distinct(processor_brand) as 'all_processors'
```

```
-- from campusx.smartphones
```

```
select processor_brand from campusx.smartphones
```

```
-- distinct combos
```

```
-- select distinct brand_name,processor_brand
```

```
-- from campusx.smartphones
```

```
-- filter rows where clause
```

```
-- select * from campusx.smartphones
```

```
-- where brand_name='samsung'
```

```
-- select * from campusx.smartphones
```

```
-- where brand_name='apple'
```

```
-- select * from campusx.smartphones
```

```
-- where price>100000
```

```
-- select * from campusx.smartphones
```

```
-- where price >10000 and price < 20000
```

```
-- between
```

```
-- select * from campusx.smartphones
```

```
-- where price between 10000 and 20000
```

```
-- select * from campusx.smartphones
```

```
-- where price < 25000 and rating > 80 and  
processor_brand='snapdragon'
```

```
-- select * from campusx.smartphones  
-- where brand_name='samsung' and ram_capacity>8
```

```
-- select * from campusx.smartphones  
-- where brand_name='samsung' and  
processor_brand='snapdragon'
```

```
-- select distinct(brand_name) from campusx.smartphones  
-- where price>50000
```

```
-- in  
-- select * from campusx.smartphones  
-- where processor_brand='snapdragon' or  
-- processor_brand='exynos' or  
-- processor_brand='bionic'
```

```
-- select * from campusx.smartphones  
-- where processor_brand in ('snapdragon','exynos','bionix')
```

```
-- not in  
-- select * from campusx.smartphones  
-- where processor_brand not in  
( 'snapdragon','exynos','bionix')
```

```
-- update
-- update campusx.smartphones
-- set processor_brand='dimesnity'
-- where processor_brand='exynos'
```

```
-- delete
-- select * from campusx.smartphones
-- where price > 200000
```

```
-- delete from campusx.smartphones
-- where price>200000
```

```
-- delete from campusx.smartphones
-- where primary_camera_rear > 150 and
brand_name='samsung'
```

```
-- select * from campusx.smartphones
-- where primary_camera_rear > 150 and
brand_name='samsung'
```

```
-- function max/min
-- select max(price) from campusx.smartphones
-- select min(price) from campusx.smartphones

-- select max(ram_capacity) from campusx.smartphones

-- select max(price) from campusx.smartphones
-- where brand_name='samsung'

-- select * from campusx.smartphones
-- where brand_name='samsung' and price=110999

-- select avg(rating) from campusx.smartphones
-- where brand_name='samsung'

-- select avg(price) from campusx.smartphones
-- where brand_name='samsung'

-- select sum(price) from campusx.smartphones

-- select count(*) from campusx.smartphones
-- where brand_name='apple'
```

```
-- select count(distinct(brand_name)) from  
campusx.smartphones
```

```
-- select std(screen_size) from campusx.smartphones
```

```
-- select variance(screen_size) from campusx.smartphones
```

```
-- scaler function
```

```
-- select abs(price-100000) as 'temp' from  
campusx.smartphones
```

```
select model,  
round((resolution_width*resolution_width +  
resolution_height*resolution_height)/screen_size) as 'ppi'  
from campusx.smartphones
```

```
-- select ceil(screen_size) from campusx.smartphones
```

```
-- select floor(screen_size) from campusx.smartphones
```