PROJECT ON SQL

TOPIC NAME :- PHONE SHOP

Made By :- Shruti Sahu

## 

\*\*\*\*\*\*\*\*\*\*\*\*\*\*CREATED TABLE USING CONSTRAINTS\*\*\*\*\*\*\*\*\*\*\*\*

create table Phone\_types(P\_id int PRIMARY KEY,Brand\_name varchar(50),Model\_name varchar(50),Price double,

# Quantity int);

#insert into Phone\_types VALUES (1,"Samsung","Galaxy\_M04",8499,10),

# (2,"Samsung","Galaxy\_M02",8199,5),

# (3,"Samsung","Galaxy\_A02",10999,8),

# (4,"Samsung","Galaxy\_A32",25000,8),

# (5,"Redmi","Mi\_Note\_8",15000,9),

# (6,"Redmi","Mi\_Note\_9",18000,10),

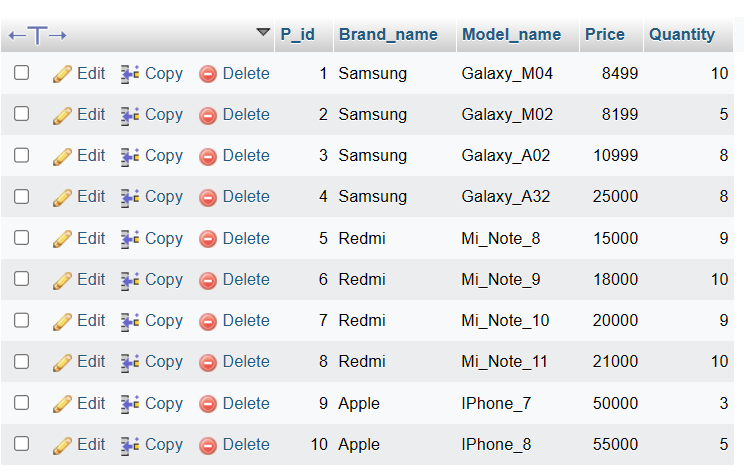
# (7,"Redmi","Mi\_Note\_10",20000,9),

# (8,"Redmi","Mi\_Note\_11",21000,10),

# (9,"Apple","IPhone\_7",50000,3),

# (10,"Apple","IPhone\_8",55000,5);

#select \* from phone\_types;



#create TABLE phone\_details(P\_id int, FOREIGN key(P\_id)REFERENCES phone\_types(P\_id),CAMERA VARCHAR(50),MEMORY VARCHAR(50),RATINGS INT,Date\_of\_Launch date);

#nsert into phone\_details values(1,"8MP","2GB",8,"20190505"),

# (2,"48MP","2GB",7,"20200321"),

# (3,"48MP","4GB",8,"20200813"),

# (4,"48MP","4GB",9,"20210215"),

# (5,"50MP","4GB",9.5,"20190814"),

# (6,"64MP","4GB",8.5,"20201219"),

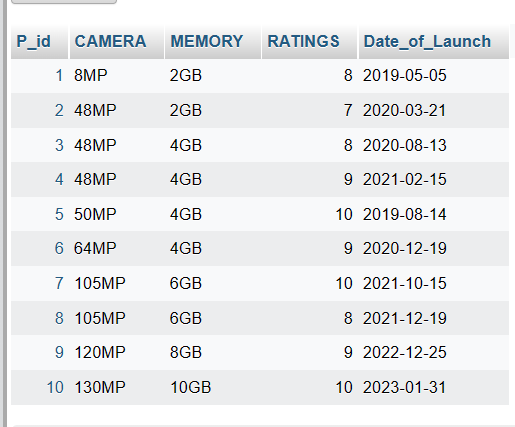
# (7,"105MP","6GB",10,"20211015"),

# (8,"105MP","6GB",7.5,"20211219"),

# (9,"120MP","8GB",9,"20221225"),

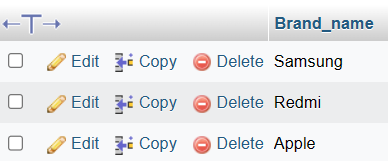
# (10,"130MP","10GB",10,20230131);

#select \* from phone\_details;

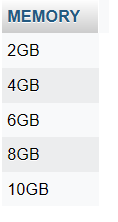


\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*USE OF DISTINCT \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#SELECT DISTINCT Brand\_name from phone\_types;

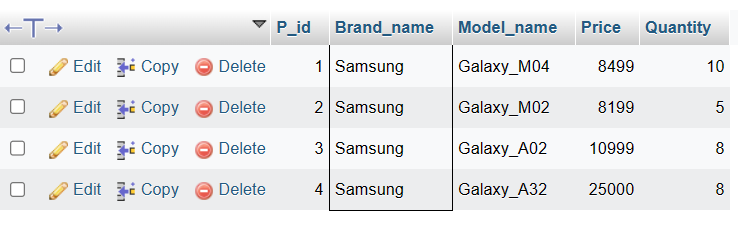


#select distinct MEMORY FROM phone\_details;

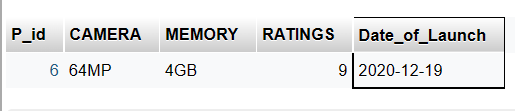


\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* USE OF WHERE \*\*\*\*\*\*\*\*\*\*\*\*

#select \* from phone\_types where Brand\_name="Samsung";

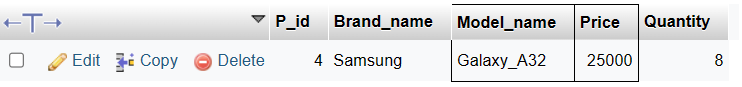


#SELECT \* from phone\_details where Date\_of\_Launch="20201219";

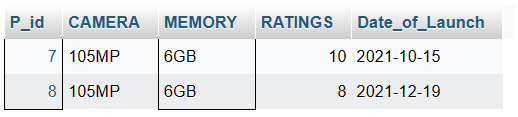


\*\*\*\*\*\*\*\*\*\*\*\*\* USE AND,OR,NOT \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

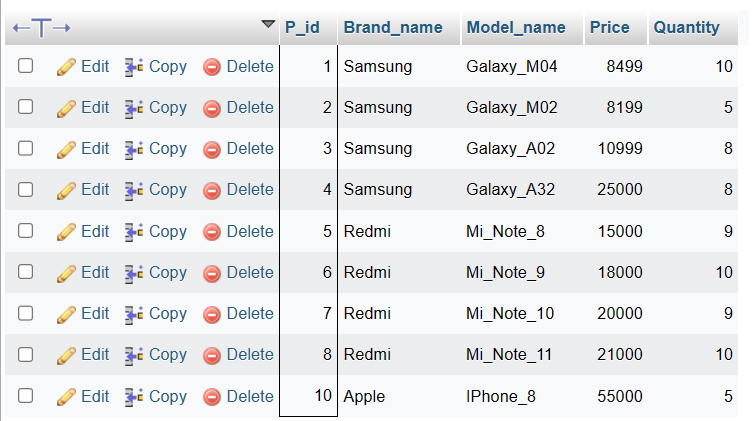
#select \* from phone\_types where Model\_name="Galaxy\_A32" and Price="25000";



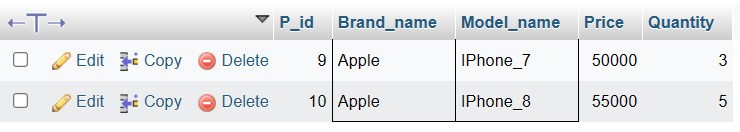
#select \* from phone\_details WHERE P\_id="107" or MEMORY="6GB";

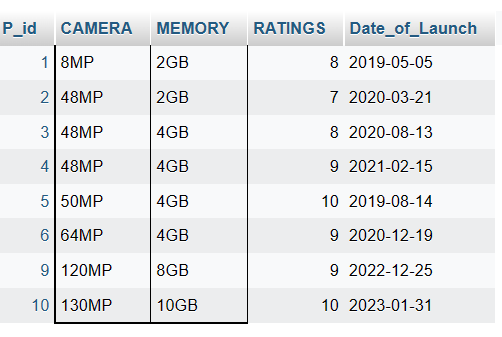


#select \* from phone\_types where NOT P\_id="9";

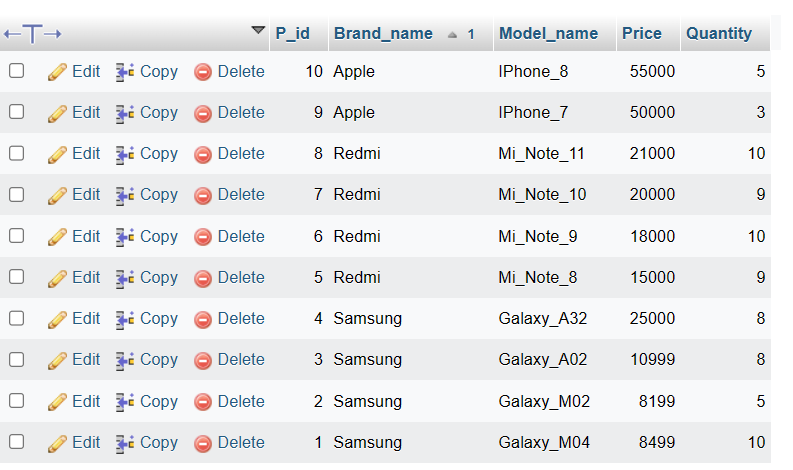


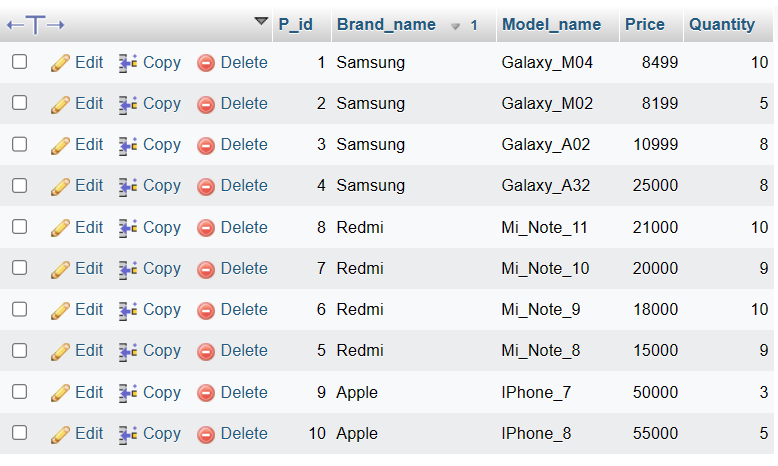
#select \* from phone\_types WHERE Brand\_name="Apple" and (Model\_name="IPhone\_7" or Model\_name="IPhone\_8");



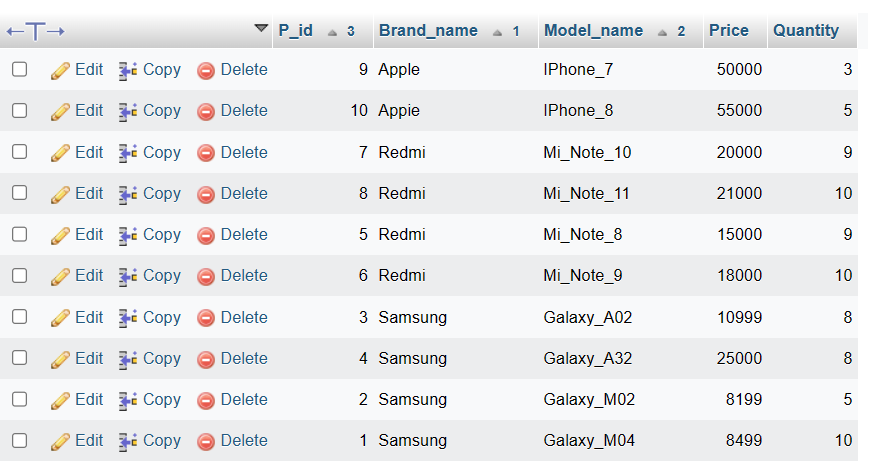
#select \* from phone\_details where not CAMERA="105MP" and not MEMORY="6GB";

\*\*\*\*\*\*\*\*\*\*\*\*\*\*USE OF ORDER BY \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#select \* from phone\_types ORDER BY Brand\_name;

#select \* from phone\_types ORDER by Brand\_name DESC;

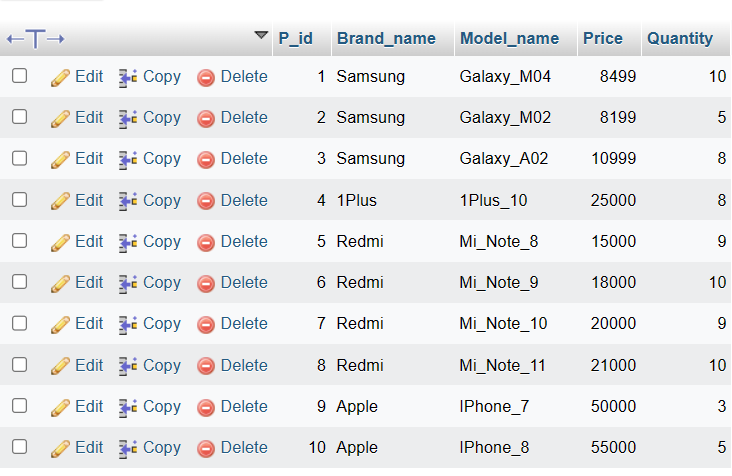
#select \* from phone\_types ORDER BY Brand\_name,Model\_name,P\_id;



\*\*\*\*\*\*\*\*\*\*\*USE OF UPDATE \*\*\*\*\*\*\*\*\*\*\*\*\*\*

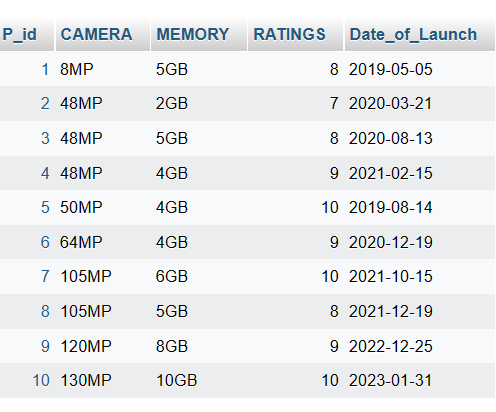
#UPDATE Phone\_types SET Brand\_name="1Plus", Model\_name="1Plus\_10" where P\_id=4;

#SELECT \*from Phone\_types;



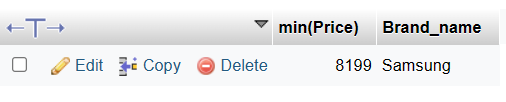
#UPDATE phone\_details SET MEMORY="5GB" WHERE RATINGS="8";

#SELECT \*from phone\_details;



\*\*\*\*\*\*\*\*\*\*USE OF MIN & MAX FUNCTION \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

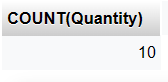
#select min(Price),Brand\_name from phone\_types;



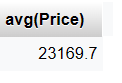
#select MAX(Price),Brand\_name from phone\_types;

\*\*\*\*\*\*\*\* USE OF COUNT, AVG & SUM FUNCTION \*\*\*\*\*\*\*\*\*\*

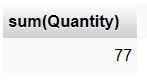
#select COUNT(Quantity) from phone\_types;



#select avg(Price) from phone\_types;

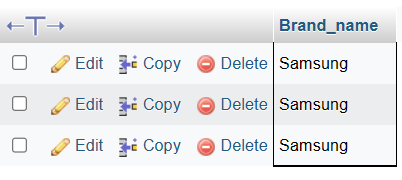


#select sum(Quantity) from phone\_types;

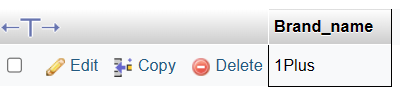


\*\*\*\*\*\*\*\*\*\*\*\*\*\*USE OF LIKE FUNCTION \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#select Brand\_name from phone\_types where Brand\_name like "s%";

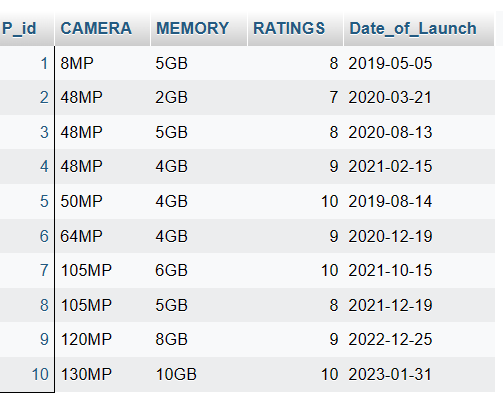


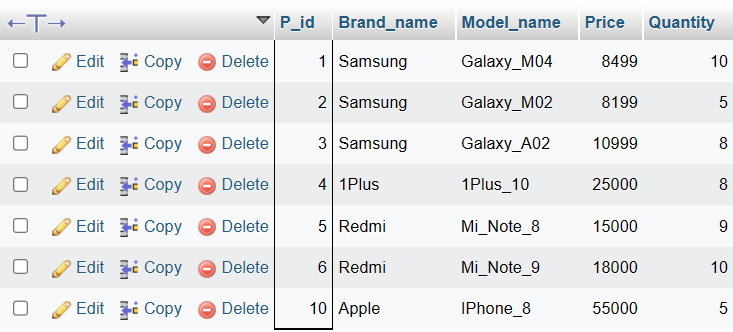
#select Brand\_name from phone\_types where Brand\_name like "%A";



\*\*\*\*\*\*\*\*\*\*\*\*IN OPERATOR \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

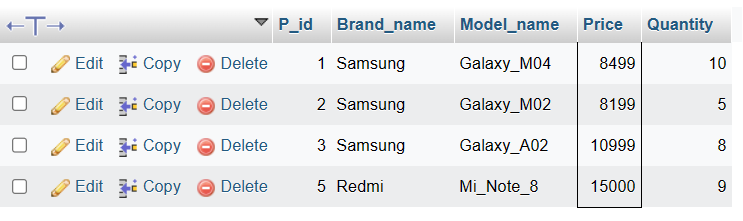
#select \* from phone\_details where P\_id not IN ("105");



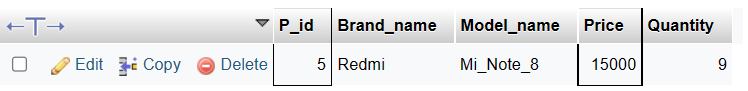
#select P\_id from phone\_types where P\_id IN (1,2,3,4,5,6,10) ;

\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* BETWEEN OPERATOR \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

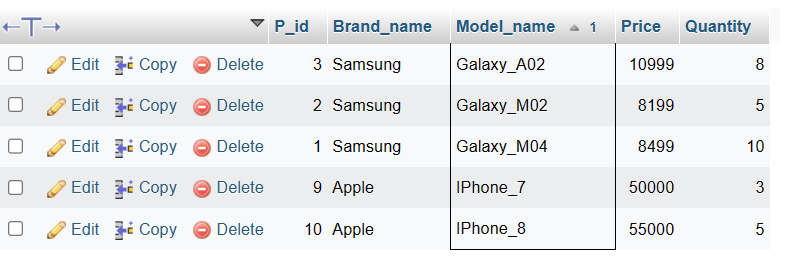
#select \* from phone\_types where Price BETWEEN 8000 and 15000;



#SELECT \* from phone\_types where Price BETWEEN 8000 and 15000 and P\_id not in(1,2,3);



#select \* from phone\_types where Model\_name BETWEEN "Galaxy\_A02" and "IPhone\_8" ORDER by Model\_name;

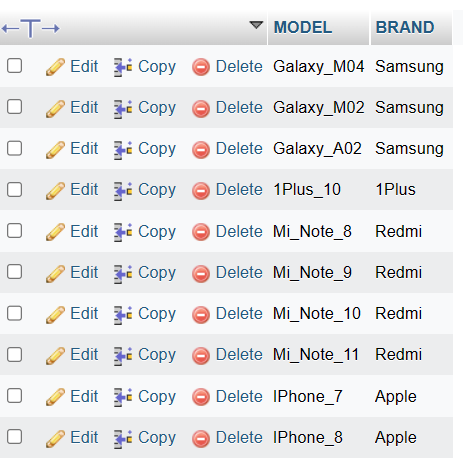


\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* USE OF ALIASES \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#select P\_id as "Id",MEMORY as "STORAGE" from phone\_details;

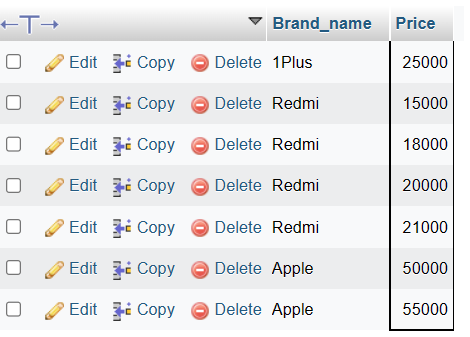


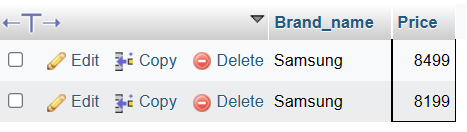
#SELECT Model\_name as "MODEL",Brand\_name as "BRAND" FROM phone\_types;



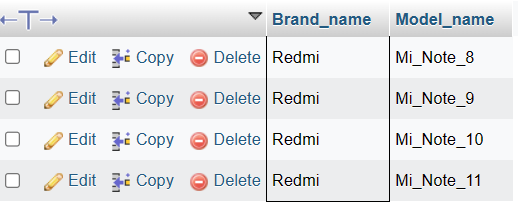
\*\*\*\*\*\*\*\*\*\*\*\*\* USE OF COMPARISON OPERATORS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#select Brand\_name,Price from phone\_types where Price>="15000";



#select Brand\_name,Price from phone\_types where Price<="10000";

#SELECT Brand\_name,Model\_name from phone\_types where Brand\_name="Redmi";

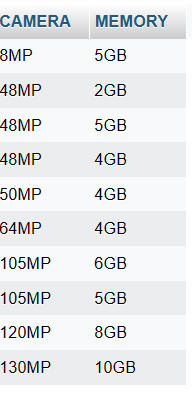


\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*USING NULL & NOT NULL OPERATOR \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

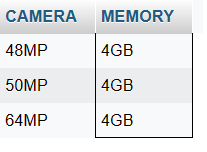
#select CAMERA,MEMORY FROM phone\_details where "RATINGS" is null;



#select CAMERA,MEMORY FROM phone\_details where "RATINGS" is not null;



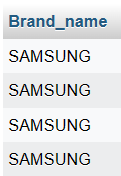
#select CAMERA,MEMORY FROM phone\_details where "RATINGS" is not null and MEMORY="4GB";



\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* STRING FUNCTIONS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

\*\*\*\*\*\*\*\*\*\*\*\*\* UPPER & LOWER \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#select UPPER("Samsung") as "Brand\_name" from phone\_types;



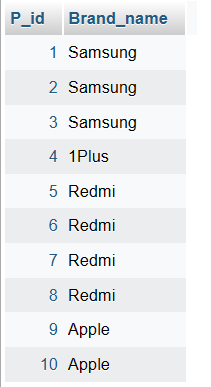
#select lower("Samsung") as "Brand\_name"from phone\_types;



\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* JOINS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

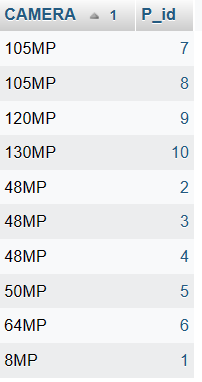
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* INNER JOINS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#SELECT phone\_details.P\_id,phone\_types.Brand\_name FROM phone\_details INNER JOIN phone\_types ON phone\_details.P\_id=phone\_types.P\_id;



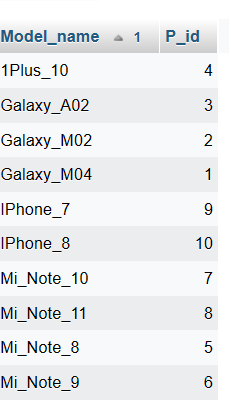
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* LEFT JOINS \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

#select phone\_details.CAMERA,phone\_types.P\_id FROM phone\_details LEFT JOIN phone\_types ON phone\_details.P\_id=phone\_types.P\_id order BY phone\_details.CAMERA;



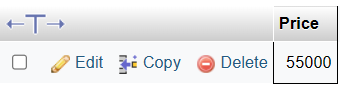
\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* RIGHT JOINS \*\*\*\*\*\*\*\*\*\*\*\*\*\*

#select phone\_types.Model\_name,phone\_details.P\_id from phone\_types RIGHT JOIN phone\_details ON phone\_types.P\_id=phone\_details.P\_id ORDER by phone\_types.Model\_name;

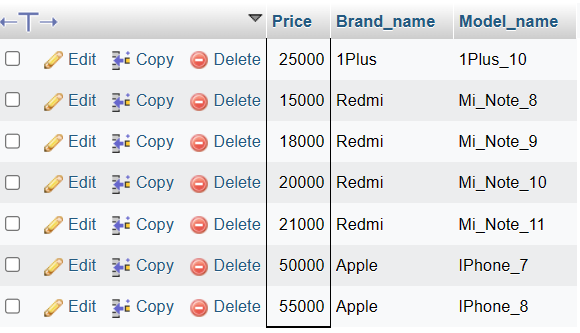


\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* SUB-QUERY \*\*\*\*\*\*\*\*\*\*\*\*\*

#SELECT Price from phone\_types where price=(SELECT max(Price) from phone\_types);



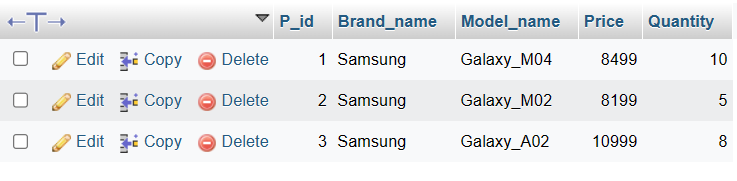
#select Price,Brand\_name,Model\_name from phone\_types where Price>(select Price from phone\_types where P\_id=3);



\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* VIEWS \*\*\*\*\*\*\*\*\*\*\*\*\*\*

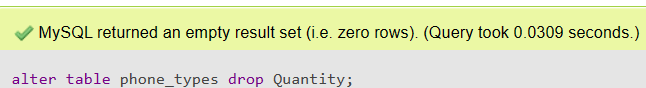
#create VIEW Phone\_view as SELECT P\_id,Brand\_name,Model\_name,Price,Quantity FROM phone\_types where Brand\_name='Samsung';

#SELECT \* from phone\_view;



\*\*\*\*\*\*\*\*\*\*\*\*\*\*\* DROP & DELETE \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*

alter table phone\_types drop Quantity;



drop table phone\_details;

