

## Assignment :- 1

Create a table named Student

Create table Student (name varchar(30), roll no int(10), class int(10), Course varchar(15));

→ Add a column Phone no. in Student

→ Insert into Student values ('Rohit', 20, 12, 'Science', 850991737);

→ Insert into Student values ('Ram', 24, 12, 'Science', 12568610);

→ Insert into Student values ('Bhaskar', 21, 12, 'Commerce', 12345678910);

→ Insert into Student values ('Rohit', 20, 12, 'Arts', 801640206);

2. Add a column Phone in Student.

→ table Student add (Phone - No, int(20));

3) Show table Student

<u>name</u>	<u>Roll no</u>	<u>Class</u>	<u>Course</u>	<u>Phone no</u>
Rohit	20	12	Science	850991737
Ram	24	12	Science	12568610
Bhaskar	21	12	Commerce	12345678910
Rohit	20	12	Arts	801640206

4) Modify Column name of student as varchar(20)

→ Alter table Student modify name varchar(20);

5) Show table Student

→ select from student

<u>name</u>	<u>Roll no</u>	<u>class</u>	<u>course</u>	<u>Phone_no</u>
Rohit	20	12	Science	019521067
Ram	21	12	commerce	926351081
Shivam	22	12	Arts	72348541

6) Delete the table Student -

→ Drop table Student.

## Assignment :- 2

Create a table :-

```
CREATE TABLE abc (name varchar(20),  
roll varchar(10))
```

Output:

Name	Roll

Insert data into table

```
Insert into abc values("Bhaskar", 1);
```

Output:-

Name	Roll
Bhaskar	1

Delete Table :-

```
drop table abc;
```

Create a new table :-

```
Create table car (c-id number (20),  
name varchar (10));
```

Output:-

C-id	name

Create new table:-

```
Create table car (car-number(20);
```

```
car-name int(20), car-amount number(20);
```

```
car-price number(20)
```

Output:-

Car-number	Car-name	Car-amount	Car-price

Insert data into table:-

Insert into Car values ((2578, 'Creta', 3, 100000),  
(9258, 'Audi', 2, 90000), (8233, 'Venne', 6, 90000),  
(6214, 'Nexon', 7, 100000));

Output:-

<u>Car-Number</u>	<u>Car-name</u>	<u>Car-Amount</u>	<u>Car-Price</u>
2578	Creta	3	100000
9258	Audi	2	90000
8233	Venne	6	90000
6214	Nexon	7	100000

Show the content of a table:-

Select \* from car where car-price = 90000;

Output:-

<u>Car-Number</u>	<u>Car-name</u>	<u>Car-Amount</u>	<u>Car-Price</u>
9258	Audi	2	90000
8233	Venne	6	90000

Insert a new data on a existing table:-

Insert into car values (6077, 'TATA', 100000);

select sum:-

select sum (Car-Price), Car-name from car group  
by Car-name - having sum (Car-Price) > 90000

Output:-

<u>Sum (Car-Price)</u>	<u>Car-name</u>
180000	



### Assignment: 3

• Create a table

```
CREATE TABLE details(  
Roll_No Number(20)  
Name VARCHAR(20),  
Address VARCHAR(20),  
Phone Number(10),  
Age NUMBER(3),  
);
```

Output

Roll_No	Name	Address	Phone	Age
empty				

• Insert data into this table

```
INSERT INTO details VALUES  
(1, 'Ram', 'Delhi', 9932363610, 18),  
(2, 'Ramesh', 'Gurgaon', 9932363510, 18),  
(3, 'Sujit', 'Rohtak', 9938363610, 20),  
(4, 'Suresh', 'Delhi', 9932363610, 18),  
(3, 'Sujit', 'Rohtak', 9932663610, 20)  
(2, 'Ramesh', 'Gurgaon', 9952363610, 18);
```

Output

Roll-No	Name	Address	Phone	Age
1	Ram	Delhi	9932363610	18
2	Ramesh	Gurgaon	9932363510	18
3	Sujit	Rohtak	9938363610	20
4	Suresh	Delhi	9932363610	18
3	Sujit	Rohtak	9932663610	20
2	Ramesh	Gurgaon	9952363610	18

### AND Operation

SELECT \* FROM details where Age = 18 AND Address = 'Dehi';

Output

Roll-No	Name	Address	Phone	Age
1	Ram	Dehi	9932363610	18
4	Suresh	Dehi	9939363610	18

### OR Operation

SELECT \* FROM details where Age = 18 OR Address = 'Dehi';

Output

Roll-No	Name	Address	Phone	Age
1	Ram	Dehi	9932363610	18
2	Ramesh	Gurgaon	9932363510	18
4	Suresh	Dehi	9939363610	18
2	Ramesh	Gurgaon	9952363610	18

• Create another table -

CREATE TABLE 'Student Course'(  
Course - Id Number(2),  
Roll - NO NUMBER(2)  
);

Output :-

Course - Id	Roll - NO
Empty	

• Insert data into this table -

INSERT INTO Student Course VALUES  
(2, 1)  
(5, 2)  
(8, 3)  
(1, 4)

Output :-

Course - Id	Roll No
2	1
5	2
8	3
1	4

### Inner Join

SELECT Student Course, course\_id, details, name, details  
Age FROM details INNER JOIN Student ON details ON details  
Roll-NO = Student Course Roll No;  
Output

<u>Course-id</u>	<u>name</u>	<u>Age</u>
2	Ram	18
5	Ramesh	18
8	Sunit	20
1	Suresh	18
8	Sunit	20
5	Ramesh	18

### Left Join

SELECT customers customer\_id, customers, first\_name  
orders . amount FROM customers LEFT JOIN orders  
ON customers . customer\_id = orders . customer;  
Output

<u>Customer-id</u>	<u>First-name</u>	<u>amount</u>
1	John	
2	Robert	
3	David	500
4	John	
5	Betty	800

### Right Join

SELECT customers . customer\_id, customers, first\_  
name, orders . amount FROM customers RIGHT JOIN  
orders ON customers customer\_id = orders . customer.  
Output

<u>Customer-id</u>	<u>First-name</u>	<u>amount</u>
3	David	500
5	Betty	800
		200
		300
		150



full join

SELECT customers . customer\_id , customers . first\_name , orders . amount FROM customers FULL OUTER JOIN orders ON customers . customer\_id = orders . customer\_id ;

output

<u>customer_id</u>	<u>first_name</u>	<u>amount</u>
		200
3	David	500
		300
5	Betty	800
		150
2	Robert	
4	John	

Create a table

## Assignment - 4

Create table named ~~People~~ Customer(  
Customer Id int(25),  
Customer name varchar(25),  
Contact name varchar(25),  
Country varchar(25)  
);

Output:

Customer Id	Customer Name	Contact Customer name	Country
Empty			

• Insert data into table:

insert into Customer (Customer Id, Customer Name, Contact name, Country) values

- (1, 'Alfreds Futterkiste', 'Maria Anders', 'Germany'),
- (2, 'Comércio Mineiro', 'Pedro Alamo', 'Brazil'),
- (3, 'Família Arquibaldo', 'Anita Cruz', 'Brazil'),
- (4, 'Fameli's P.A', 'Paolo Accenti', 'Italy'),
- (5, 'Que Deicia', 'Bernardo Batista', 'Brazil'),

Output:

Customer - Id	Customer Name	Contact name	Country
1	Alfreds Futterkiste	Maria Anders	Germany
2	Comércio Mineiro	Pedro Alamo	Brazil
3	Família Arquibaldo	Anita Cruz	Brazil
4	Fameli's P.A	Paolo Accenti	Italy
5	Que Deicia	Bernardo Batista	Brazil

View:

Create view [Brazil customer] as select Customer Name, Contact name from Customer where Country = 'Brazil';

Customer Name	Contact Name
Comércio Mineiro	Pedro Alamo
Comerio Arquibaldo	Anita Cruz
Que Deicia	Bernardo Batista



## Assignment 1-5

create a table

CREATE TABLE Products (

Product-id int Primary key.

Product-name varchar (50).

Price decimal (8,2)

);

Insert into Products values (1, 'Laptop', 1200.00).

Insert into Products values (2, 'Smart Phone', 800.50)

Insert into Products values (3, 'Tablet', 400.75).

Insert into Products values (4, 'Headphones', 100.25);

MIN and MAX

Select MIN (Price) as min-Price, MAX (Price) as max-Price from Products;

output

min - Price

100.25

max - Price

1200.00

COUNT

Select Count (\*) as Product-count from Products.

output

Product-count

4

SUM

Select Sum (Price) as total-Price from Products;

INPUT

total - Price

2051.50

AVG

Select AVG (Price) as Average-Price from Products.

OUTPUT

Average - Price

625.375

LIKE

Select \* from Products where Product name Like 'Phone.1.%'

OUTPUT

Product-id  
2

Product name  
Smart Phone

Price  
800.50

## Assignment :- 6

Create a table named People.

```
CREATE TABLE People(  
  id int primary key,  
  name varchar (50),  
  age int,  
  grade char(1)
```

Insert into

Insert into

Insert into

Insert into

IN Operator:-

Select \* from

People where

grade in ('A', 'B');

Output

id

name

age

grade

1

John

25

A

2

Alice

30

B

BETWEEN Operator:-

select \* from

People where

age between 25 and 30;

Output:-

id

name

age

grade

1

John

25

A

2

Alice

30

B

3

Bob

28

C

Operator:-

Select \* from

as 'name',

age as 'Age'

grade as 'Grade'

from People

Output:-

name

Age

Grade

John

25

A

Alice

30

B

Bob

28

C

Eva

22

A

12/12/23