

SQL EXERCISE – 09/07/2021

/*Creating Table*/

```
create table Table1Sruthi(  
    A_Id int primary key,  
    A_Name varchar(20),  
    A_Contact varchar(10),  
    A_DOB date  
)
```

```
Alter table Table1Sruthi  
Add A_Grade char;
```

/*Inserting values*/

```
insert into Table1Sruthi  
values (1, 'sam', '9876543210', '1989-10-5', 'A'),  
       (2, 'mark', '9890236548', '1997-1-7', 'F'),  
       (3, 'rick', '9987543218', '1895-11-8', 'E'),  
       (4, 'fred', '9876598745', '1984-5-12', 'C'),  
       (5, 'gray', '9888856972', '1981-6-17', 'B'),  
       (6, 'Michel', '9874563214', '2010-5-5', 'A');
```

/*Creating Table*/

```
create table Table2Sruthi(  
    B_Id int primary key,  
    A_Id int,  
    B_Region varchar(20),  
    B_Phone varchar(10),  
    B_Date date,  
    Foreign Key (A_Id) References Table1Sruthi(A_Id)  
);
```

```
Alter table Table2Sruthi  
Add A_Initial char;
```

/*Inserting values*/

```
insert into Table2Sruthi  
values (11, 5, 'India', '9888856972', '1989-8-5', 'B'),  
       (12, 1, 'Us', '9876543210', '1997-12-7', 'F'),  
       (13, 6, 'Uk', '9874563214', '1895-1-8', 'E'),  
       (14, 2, 'France', '9890236548', '1984-4-12', 'C'),  
       (15, 3, 'Australia', '9987543218', '1989-11-2', 'A');
```

```
Update Table2Sruthi  
set B_Region = 'India'  
where B_Id = 15;
```

```
Update Table2Sruthi  
set A_Initial = 'A'  
where B_Id = 13;
```

/*Display tables*/

select * from table1sruthi

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor contains the following query:

```
select * from table1sruthi
select * from table2sruthi

/*SQL AND,OR,NOT and STRINGS*/

select a_name, a_grade
from table1sruthi
where a_grade='A' or a_grade='B';

select b_region, b_phone
from table2sruthi
where b_region='India' and a_initial='A';
```

The Results pane shows the data for 'table1sruthi' with 6 rows fetched in 31ms. The columns are: a_id, a_name, a_contact, a_dob, a_grade.

a_id	a_name	a_contact	a_dob	a_grade
1	sam	9876543210	1989-10-05	A
2	mark	9890236548	1997-01-07	F
3	rick	9987543218	1895-11-08	E
4	fred	9876598745	1984-05-12	C
5	gray	988856972	1981-06-17	B
6	Michel	9874563214	2010-05-05	A

select * from table2sruthi

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor contains the same query as the previous screenshot. The Results pane shows the data for 'table2sruthi' with 5 rows fetched in 121ms. The columns are: b_id, a_id, b_region, b_phone, b_date, a_initial.

b_id	a_id	b_region	b_phone	b_date	a_initial
1	1	India	988856972	1989-08-05	B
2	12	Us	9876543210	1997-12-07	F
3	14	France	9890236548	1984-04-12	C
4	15	India	9987543218	1989-11-02	A
5	13	India	9874563214	1895-01-08	A

/*SQL AND,OR,NOT and STRINGS*/

```
select a_name, a_grade
from table1sruthi
where a_grade='A' or a_grade='B';
```

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor contains the following query:

```
select * from table1sruthi
select * from table2sruthi

/*SQL AND,OR,NOT and STRINGS*/

select a_name, a_grade
from table1sruthi
where a_grade='A' or a_grade='B';

select b_region, b_phone
from table2sruthi
where b_region='India' and a_initial='A';
```

The Results tab shows the results of the first query, displaying a table with columns 'a_name' and 'a_grade'.

a_name	a_grade
Sam	A
gray	B
Michel	A

The status bar indicates that 3 rows were fetched in 21ms.

```
select b_region, b_phone
from table2sruthi
where b_region='India' and a_initial='A';
```

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor contains the following query:

```
select * from table1sruthi
select * from table2sruthi

/*SQL AND,OR,NOT and STRINGS*/

select a_name, a_grade
from table1sruthi
where a_grade='A' or a_grade='B';

select b_region, b_phone
from table2sruthi
where b_region='India' and a_initial='A';
```

The Results tab shows the results of the second query, displaying a table with columns 'b_region' and 'b_phone'.

b_region	b_phone
India	9987543218
India	9874563214

The status bar indicates that 2 rows were fetched in 28ms.

```
select b_region, b_phone
from table2sruthi
where not b_region='India'
```

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor contains the following query:

```
select * from table2sruthi
/*SQL AND,OR,NOT and STRINGS*/
select a_name, a_grade
from table1sruthi
where a_grade='A' or a_grade='B';
select b_region, b_phone
from table2sruthi
where b_region='India' and a_initial='A';
select b_region, b_phone
from table2sruthi
where not b_region='India'
```

The Results pane shows the results of the last query, displaying a table with columns 'b_region' and 'b_phone'.

b_region	b_phone
Us	9876543210
France	9890236548

The status bar indicates that 2 rows were fetched in 26ms.

```
select a_name
from table1sruthi
where a_name LIKE '%k'
```

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor contains the following query:

```
select a_name, a_grade
from table1sruthi
where a_grade='A' or a_grade='B';
select b_region, b_phone
from table2sruthi
where b_region='India' and a_initial='A';
select b_region, b_phone
from table2sruthi
where not b_region='India';
select a_name
from table1sruthi
where a_name LIKE '%k'
```

The Results pane shows the results of the last query, displaying a table with columns 'a_name'.

a_name
mark
rick

The status bar indicates that 2 rows were fetched in 120ms.

/*Aggregate Functions*/

/*MIN, MAX, COUNT, SUM, AVG, DISTINCT*/

```
select count(b_id)
from table2sruthi
```

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor on the right contains the following query:

```
from table2sruthi
where b_region='India' and a_initial='A';

select b_region, b_phone
from table2sruthi
where not b_region='India'

select a_name
from table1sruthi
where a_name LIKE '%k'

/*Aggregate Functions*/
select count(b_id)
from table2sruthi
```

The Results 1 tab shows the output of the last query:

count
5

The status bar at the bottom indicates "1 row(s) fetched - 108ms".

```
select Distinct(b_region) as Region
from table2sruthi
```

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor on the right contains the following query:

```
select b_region, b_phone
from table2sruthi
where not b_region='India'

select a_name
from table1sruthi
where a_name LIKE '%k'

/*Aggregate Functions*/
/*MIN, MAX, COUNT, SUM, AVG, DISTINCT
select count(b_id)
from table2sruthi

select Distinct(b_region) as Region
from table2sruthi
```

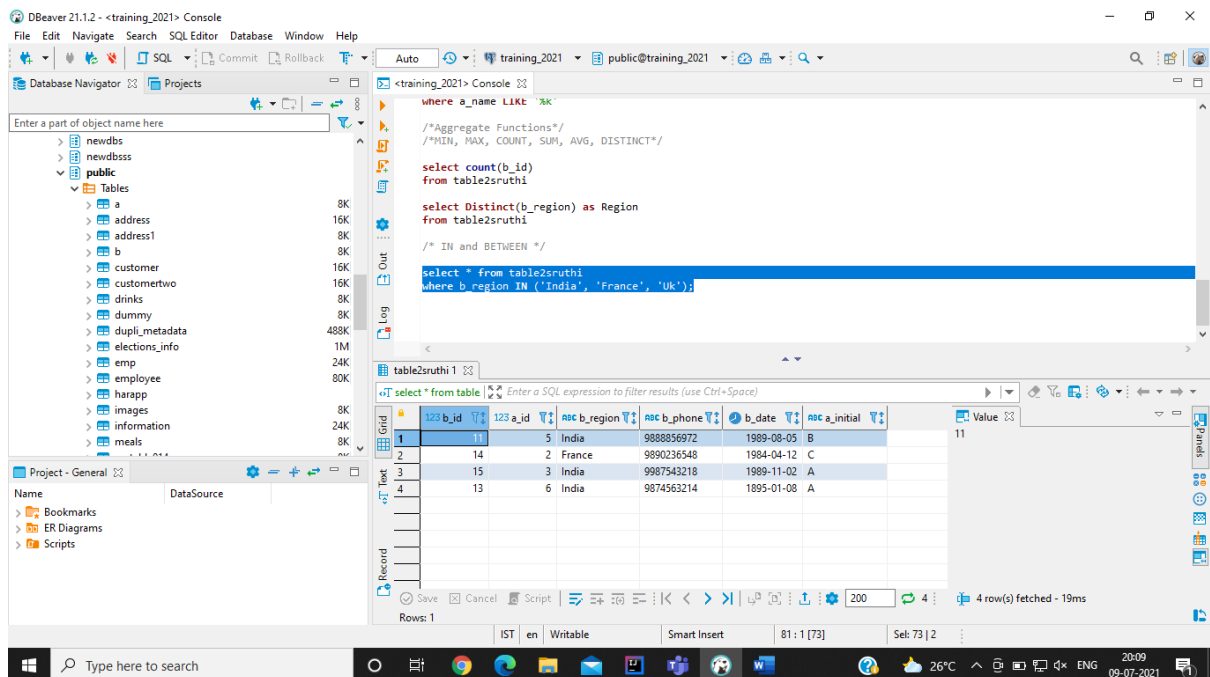
The Results 1 tab shows the output of the last query:

Region
France
Us
India

The status bar at the bottom indicates "3 row(s) fetched - 84ms".

/* IN, NOTIN and BETWEEN, NOTBETWEEN */

```
select * from table2sruthi
where b_region in ('India', 'France', 'Uk');
```



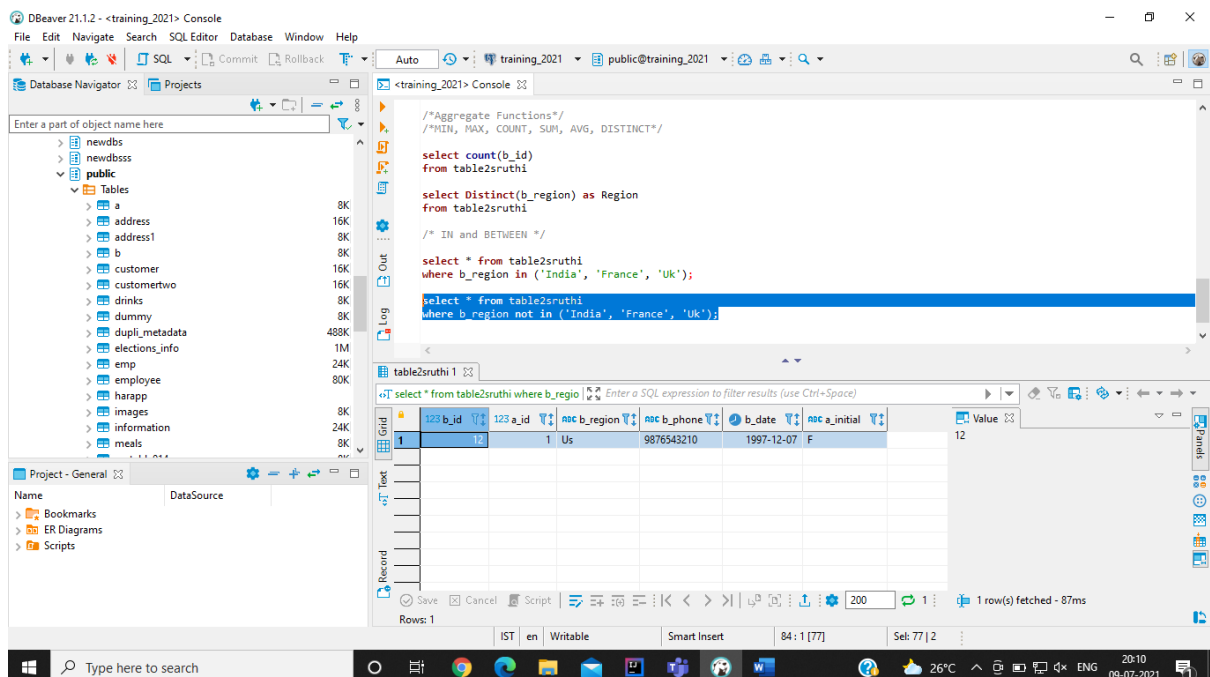
The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor contains the following query:

```
/* IN and BETWEEN */
select * from table2sruthi
where b_region in ('India', 'France', 'Uk');
```

The result set, titled 'table2sruthi 1', displays 4 rows of data:

b_id	a_id	b_region	b_phone	b_date	a_initial
11	5	India	988856972	1989-08-05	B
14	2	France	9890236548	1984-04-12	C
15	3	India	9887543218	1989-11-02	A
13	6	India	9874563214	1895-01-08	A

```
select * from table2sruthi
where b_region not in ('India', 'France', 'Uk');
```



The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor contains the following query:

```
/* IN and BETWEEN */
select * from table2sruthi
where b_region in ('India', 'France', 'Uk');
select * from table2sruthi
where b_region not in ('India', 'France', 'Uk');
```

The result set, titled 'table2sruthi 1', displays 1 row of data:

b_id	a_id	b_region	b_phone	b_date	a_initial
12	1	Us	9876543210	1997-12-07	F

```
select a_name, a_contact
from table1sruthi
where a_id between 3 and 5
```

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor on the right contains the following query:

```
select Distinct(b_region) as Region
from table2sruthi

/* IN, NOTIN and BETWEEN */

select * from table2sruthi
where b_region in ('India', 'France', 'Uk');

select * from table2sruthi
where b_region not in ('India', 'France', 'Uk');

select a_name, a_contact
from table1sruthi
where a_id between 3 and 5
```

The query results are displayed in the 'table1sruthi 1' grid. The results show 3 rows fetched in 125ms.

id	a_name	a_contact
1	rick	9987543218
2	fred	9876598745
3	gray	9888856972

```
select a_name, a_contact
from table1sruthi
where a_id not between 3 and 5
```

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor on the right contains the following query:

```
from table2sruthi

/* IN, NOTIN and BETWEEN, NOTBETWEEN */

select * from table2sruthi
where b_region in ('India', 'France', 'Uk');

select * from table2sruthi
where b_region not in ('India', 'France', 'Uk');

select a_name, a_contact
from table1sruthi
where a_id between 3 and 5

select a_name, a_contact
from table1sruthi
where a_id not between 3 and 5
```

The query results are displayed in the 'table1sruthi 1' grid. The results show 3 rows fetched in 125ms.

id	a_name	a_contact
1	rick	9987543218
2	fred	9876598745
3	gray	9888856972

/*UNION and UNION ALL*/

```
select a_id from table1sruthi
union
select a_id from table2sruthi
order by a_id;
```

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor contains the following query:

```
select a_name, a_contact
from table1sruthi
where a_id between 3 and 5

select a_name, a_contact
from table1sruthi
where a_id not between 3 and 5

/*UNION and UNION ALL*/

select a_id from table1sruthi
union
select a_id from table2sruthi
order by a_id;
```

The Results window displays the output of the query:

a_id	a_name	a_contact
1		
2		
3		
4		
5		
6		

The status bar indicates "6 row(s) fetched - 252ms".

```
select a_id from table1sruthi
union all
select a_id from table2sruthi
order by a_id;
```

The screenshot shows the DBeaver 21.1.2 interface. The SQL Editor contains the following query:

```
where a_id between 3 and 5

select a_name, a_contact
from table1sruthi
where a_id not between 3 and 5

/*UNION and UNION ALL*/

select a_id from table1sruthi
union
select a_id from table2sruthi
order by a_id;

select a_id from table1sruthi
union all
select a_id from table2sruthi
order by a_id;
```

The Results window displays the output of the query:

a_id	a_name	a_contact
1		
2		
3		
4		
5		
6		
7		
8		
9		

The status bar indicates "11 row(s) fetched - 105ms".