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BRANCH :- Comps -B. **BATCH:** B.

EXPERIMENT 5: To perform join operation on data.

SUBJECT :- DBMS (DATABASE MANAGEMENT SYSTEM)

```
create database elderlycare;
use elderlycare;
create table ngo(id int primary key, name varchar(20), address varchar(20));
insert into ngo(id, name, address) values (1, "swadesh", "Mahad"),
(2, "manish", "Andheri"), (3, "atharv", "bhoisar"), (4, "vishesh", "thane"), (5, "nipun", "jogeshwari"),
(6, "nishant", "kalyan"), (7, "krunal", "roha"), (8, "om", "panvel"), (9, "shubham", "karjat"),
(10, "samyak", "khopoli");
select * from ngo;
```

```
create table companion(id int primary key, name varchar(20), address varchar(20));
insert into companion(id, name, address) values (16, "swadesh", "Mahad"),
(2, "manish", "Andheri"), (3, "atharv", "bhoisar"), (4, "vishesh", "thane"), (5, "nipun", "jogeshwari"),
(6, "nishant", "kalyan"), (7, "krunal", "roha"), (88, "om", "panvel"), (9, "shubham", "karjat"),
(100, "samyak", "khopoli");
select * from companion;
```

```
create table companions(id int primary key, name varchar(20), address varchar(20));
insert into companions(id, name, address) values (16, "swadesh", "Mahad"),
(2, "manish", "Andheri"), (3, "atharv", "bhoisar"), (4, "vishesh", "thane");
```

```
create table ngo2(id int primary key, name varchar(20), address varchar(20));
insert into ngo2(id, name, address) values (1, "swadesh", "Mahad"),
(2, "manish", "Andheri");
```

1. Equijoin:

```
select ngo.id, ngo.name, companion.id, companion.address
```

```
from ngo, companion
```

```
where ngo.id=companion.id;
```

Result Grid				
Filter Rows:				
	id	name	id	address
▶	2	manish	2	Andheri
	3	atharv	3	bhoisar
	4	vishesh	4	thane
	5	nipun	5	jogeshwari
	6	nishant	6	kalyan
	7	krunal	7	roha
	9	shubham	9	karjat

2. Non-Equijoin:

```
select ngo.id, ngo.name, companions.id, companions.address
from ngo, companions
where ngo.id < companions.id;
```

Result Grid				
Filter Rows:				
	id	name	id	address
▶	1	swadesh	2	Andheri
	1	swadesh	3	bhoisar
	2	manish	3	bhoisar
	1	swadesh	4	thane
	2	manish	4	thane
	3	atharv	4	thane
	1	swadesh	16	Mahad
	2	manish	16	Mahad
	3	atharv	16	Mahad
	4	vishesh	16	Mahad
	5	nipun	16	Mahad
	6	nishant	16	Mahad
	7	krunal	16	Mahad
	8	om	16	Mahad
	9	shubham	16	Mahad
	10	samyak	16	Mahad

3. Selfjoin:

```
select ngo.name as name1, companion.name as name2, ngo.address
from ngo, companion
where ngo.id <> companion.id
and ngo.address = companion.address
order by ngo.address;
```

Result Grid			
Filter Rows:			
	name1	name2	address
▶	samyak	samyak	khopoli
	swadesh	swadesh	Mahad
	om	om	panvel

4. Cross Join:

```
select ngo2.name, companions2.address
from ngo2
cross join companions2;
```

Result Grid			Filter Rows:
	name	address	
▶	swadesh	Andheri	
	manish	Andheri	
	swadesh	Mahad	
	manish	Mahad	

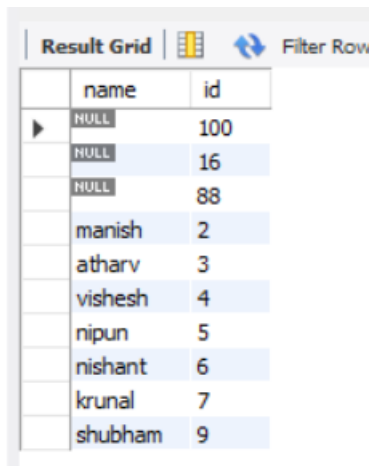
5. Outer Join:**a) Left Outer Join:**

```
select ngo.name, companion.id
from ngo
left outer join companion
on
ngo.id=companion.id
order by ngo.name;
```

Result Grid			Filter Rows:
	name	id	
▶	atharv	3	
	krunal	7	
	manish	2	
	nipun	5	
	nishant	6	
	om	NULL	
	samyak	NULL	
	shubham	9	
	swadesh	NULL	
	vishesh	4	

b) Right Outer Join:

```
select ngo.name, companion.id
from ngo
right outer join companion
on
ngo.id=companion.id
order by ngo.id;
```

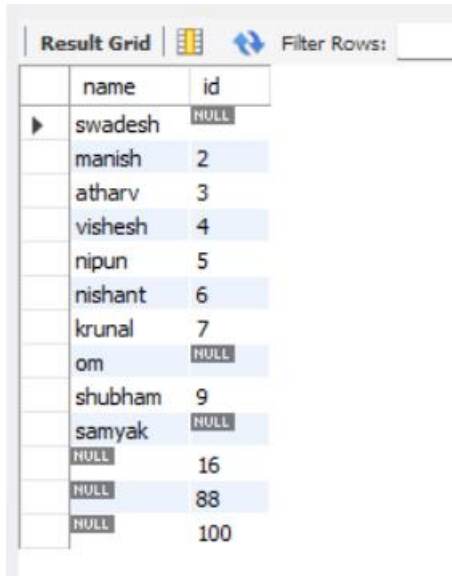


	name	id
▶	HULL	100
	HULL	16
	HULL	88
	manish	2
	atharv	3
	vishesh	4
	nipun	5
	nishant	6
	krunal	7
	shubham	9

c) Full Outer Join:

```
select ngo.name, companion.id
from ngo
left outer join companion
on
ngo.id=companion.id
union
select ngo.name, companion.id
from ngo
right outer join companion
on
ngo.id=companion.id;
```

DBMS EXPERIMENT NO. 5



The screenshot shows a database interface with a 'Result Grid' tab. The grid displays a table with two columns: 'name' and 'id'. The data is as follows:

name	id
swadesh	NULL
manish	2
atharv	3
vishesh	4
nipun	5
nishant	6
krunal	7
om	NULL
shubham	9
samyak	NULL
NULL	16
NULL	88
NULL	100

Conclusion: Hence by completing this experiment I came to know about how to implement Join operations.