Ex. No:4
Date:22/8/2019

Ex. No. 4 Set Operations

Aim

To demonstrate the basic set operations.

Description

There are four major set operations available union,union all,intersect,minus.

Questions:

Create the following tables.

Employee table:

ename	city
Anil	Nagpur
Shankar	Bombay
Jaya	Chennai
Sunil	Bombay
Vijay	Delhi
Prakash	Calcutta
Ajay	Chennai

Emp_company table

Ename	Cname	Salary	Jdate
Anil	Acc	1500	1-MAY-89
Shankar	Tata	2000	10-JUL-90
Jaya	CMC	1800	7-JUN-91
Sunil	CMC	1700	1-JAN-88
Vijay	TATA	5000	3-JAN-88
Prakash	TATA	3000	27-MAY-89
Ajay	Acc	8000	30-APR-95
Amol	Acc	1000	17-MAR-95
Kiran	Hyundai Mobis	30000	18-DEC-98

Company Table

cname	City
Acc	Chennai
TATA	Bombay
Acc	Nagpur

CMC	Bombay
CMC	Chennai
TATA	Delhi

Manager Table:

Ename	mname
Anil	Ajay
Shankar	Vijay
Jaya	-
Sunil	Jaya
Vijay	-
Prakash	Shankar
Ajay	-

Emp_shift table

ename	shift
Anil	A
Sunil	B
Vijay	B
Prakash	C
Kiran	E

1. Display the cities of the companies Acc and TATA.

```
SQL> select city from company_cs076 where cname like 'acc' union select city from company_cs076 where cname like 'tata';

CITY
--------------------
bombay
chennai
delhi
nagpur
```

2. Display the names of the city that is common to companies Acc and TATA.

```
SQL> select city from company_cs076 where cname like 'acc'intersect select city from company_cs076 where cname like 'tata';

no rows selected
```

3. Find the cities where Acc is located, but not TATA.

```
SQL> select city from company_cs076 where cname like 'acc' minus select city from company_cs076 where cname like 'tata';

CITY
--------------------
chennai
nagpur
```

4. Display the names of employees living in Nagpur, and working with company

Acc.

```
SQL> select ename from employee_cs076 where city like'nagpur' intersect
select ename from emp_company_cs076 where cname like 'acc';

ENAME
----------
anil
```

5. **Display the names of employees living in Nagpur, but not working in company Acc.**

```
SQL> select ename from employee_cs076 where city like'nagpur' minus
 select ename from emp_company_cs076 where cname like 'acc';

no rows selected
```

6. **List the names of the employees living in city Bombay and having salary >1500**

```
SQL> select ename from employee_cs076 where city like 'bombay' intersect
select ename from emp_company_cs076 where salary > 1500;

ENAME
----------
shankar
sunil
```

7. **Display the names of the employees living in the city Chennai and working with the company CMC.**

```
SQL> select ename from employee_cs076 where city like'chennai' intersect select ename from emp_company_cs076 where cname like 'cmc';
ENAME
----------
sunil
```

8. **Display the names of the employees living in Nagpur, working in Acc, and having shift A.**

```
SQL> select ename from employee_cs076 where city like'nagpur' intersect
select ename from emp_company_cs076 where cname like 'acc' intersect
select ename from emp_shift_cs076 where shift like 'a';

ENAME
--------------------
anil
```

9. **Display the names of employees who are living in Nagpur or Bombay.**

```
SQL> select ename from employee_cs076 where city like 'nagpur' union all
| select ename from employee_cs076 where city like 'bombay';

ENAME
----------
anil
shankar
sunil
```

10. Display the employee name whose joining date is 18-DEC-98 and whose working shift is 'E'.

```
SQL> select ename from emp_company_cs076 where jdate like '18-dec-98' intersect
 select ename from emp_shift_cs076 where shift like 'e';|

no rows selected
```

11.Use in operator to display the names of the employees living in the same city where Sunil is residing.

```
SQL> select ename from employee_cs076 where city in (select city from employee_cs076 where ename like 'sunil');

ENAME
----------
sunil
shankar
```

12.Use in operator to display the employees living in the city Bombay and having their company located in the city Delhi.

```
SQL> select ename from emp_company_cs076 where cname in (select cname from company where city like 'delhi');

ENAME
----------
prakash
vijay
shankar
```

13.Display the names of the employees having same city as Ajay[Hint: Use IN operator]

```
SQL> select ename from employee_cs076 where city in (select city from employee_cs076 where ename like 'ajay');

ENAME
----------
ajay
jaya
```