SHIV NADAR UNIVERSITY CHENNAI

CS2801T – Database Management System Lab

SETS & JOINS

SETS

Create the following tables.

Employee table:

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

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	CMC	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	Chennai

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.
2. Display the names of the city that is common to companies Acc and TATA.
3. Find the cities where Acc is located, but not TATA.
4. Display the names of employees living in Nagpur, and working with company Acc.
5. Display the names of employees living in Nagpur, but not working in company Acc.
6. List the names of the employees living in city Bombay and having salary >1500
7. Display the names of the employees living in the city Chennai and working with the company CMC.
8. Display the names of the employees living in Nagpur, working in Acc, and having shift A.
9. Display the names of the employees living in Nagpur, working in company Acc and not working in shift B.
10. Display the names of employees who are living in Nagpur or Bombay.
11. Display the employee names using union and union all operator.
12. Display the employee name whose joining date is 18-DEC-98 and whose working shift is ‘E’.
13. Use in operator to display the names of the employees living in the same city where Sunil is residing.
14. Use in operator to display the employees living in the city Bombay and having their company located in the city Delhi.
15. Display the names of the employees having same city as Ajay [Hint: Use IN operator]

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JOINS

Note: (i) Drop the previously created Manager table and create a new one.
(ii) Add the following row in the employee table which was created previously.
<ename, city>
Suresh NULL
(iii) Add the following row in the emp_company table which was created previously.
<Ename Cname Salary Jdate>
Suresh Acc 8000 12-jul-85

Manager Table:

Ename	mname	City
Anil	Ajay	Nagpur
Shankar	Vijay	Chennai
Jaya	Kiran	Calcutta
Sunil	Jaya	Bombay
Vijay	Rakesh	Calcutta
Prakash	Shankar	Nagpur
Ajay	Sanjay	Coimbatore

1. Write a query to display the name, living city, company name, salary and joining date of employees using natural join.
2. Write a SQL statement to make a cartesian product between manager name and employee name.
3. Display the employee name, manager name and salary of the employees whose salary is greater than 3000.[using where clause]
4. Display the employee name, manager name and salary of the employees whose salary is greater than 3000.[using on clause]
5. Write a SQL statement to prepare a list with employee names who live and work in the same city.
6. Write a SQL statement to make a list with employee name who live in the city Chennai and whose salary is between 1500 and 10000.
7. Display the names of the employees, company name and salary of the employees who are not assigned any living city.
8. Display the employee name, manager name and shift of all the employees. [use left outer join]
9. Display cities of the employees in which a company is not located.[using right outer join]
10. Display the employee name, manager name and shift of the employees. [using full outer join]
11. Display the employee name and cities of the employees who are assigned a manager and live in the same city as that of the manager [Use Inner Join].
12. Display the ascending list of customers who are either assigned a manager or not.

Submission: Write the queries for the questions given in a word document and submit in the LMS. Take screenshots of the tables and the results for every query and attach them in the word document.

Date of submission: 19-03-2023