## DBMS Skilling-5

Name: B.V.AVINASH CHOWDARY

Reg No: 2000031540

## **IN-LAB**

Q. Implement SQL Queries on Case Study (PROPERTY RENTAL INFORMATION SYSTEM)

- 1. Create tables with the required constraints for the given case study
- 2. Insert 10 records into the created tables

staff_no	name	salary	city	state		phone	email
50012	Surya 4	45000.00	Hyderabad	Telangana		607433146	54   sj@gmail.com
50013	raju !	50000.00	Banglore	Karnataka		615898456	
50014	virat !	55000.00	Vijaywada	Andhra Pra	desh	624363766	66   v@raju.com
50015	laya   (	60000.00	chennai	Tamil nadu	ı	632829076	57   pooja@tcs.com
50016	pooja (	65000.00	kochi	kerala		641294386	58   ab@gmail.com
50017	anil	70000.00	Hyderabad	Telangana		649759696	59   anil@gmail.com
50018	sunil	75000.00	Banglore	Karnataka		658225007	
50019	rohit	35000.00	Vijaywada	Andhra Pra	desh	666690317	71   rohit@gmail.com
50020	sowmya 4	42000.00	chennai	Tamil nadu	ı	675155627	72   sowmya@gmail.com
50021	robert 9	90000.00	mumbai	maharastra	1	683620937	73   robert@gmail.com
50022	mujahed 9	95000.00	pune	maharastra	1	692086247	74   mujahed@gmail.com
(11 rows)							
postgres=#	select * fr	om branch	:				
branch_no	city	st	ate	manager	bran	ch_phone	branch_email
6622	Hyderabad	Telang	ana	50017	80	74337464	Hyderabad@gmail.com
6623	Banglore	Karnat		50018	80	75337465	banglore@gmail.com
6624	Vijaywada	Andhra	Pradesh	50014	80	76337466	ap@gmail.com
6625	chennai	Tamil	nadu	50015	80	77337467	tn@gmail.com
6626	kochi	kerala		50016	80	78337468	kochi@gmail.com
(5 rows)							-

owner no	select * f	rom owner; type of business	city	state	phone	email				
+	+		+		+	CINGII				
8892	shiva	private employee	Hyderabad	Telangana	6074331464	shiva@gmail.com				
8893	iswhar	software engineer	Banglore	Karnataka	6158984565	ish@gmail.com				
8894	gopi	private employee	Vijaywada	Andhra Pradesh	6243637666	gopi@gmail.com				
8895	gopal	clerk	chennai	Tamil nadu	6328290767	<pre>gopal@gmail.com</pre>				
8896	sneha	jr journalist	kochi	kerala	6412943868	sneha@gmail.com				
8897	latha	teacher	Hyderabad	Telangana	6497596969	latha@gmail.com				
8898	gorge	coal mining ceo	Banglore	Karnataka	6582250070	gorge@gmail.com				
8899	samuel	business	Vijaywada	Andhra Pradesh	6666903171	samuel@gmail.com				
8900	roberts	business	chennai	Tamil nadu	6751556272	roberts@gmail.com				
8901	sonu	software engineer	mumbai	maharastra	6836209373	sonu@gmail.com				
8902	raju	software engineer	pune	maharastra	6920862474	raju@gmail.com				
(11 rows)										
ostgres=#	select * f	rom renter;								
renter_no	name	type_of_business	city	state	phone	email				
9802	ram	private employee	Hyderabad	Telangana	6074331464	ram@gmail.com				
9803	sham	software engineer	Banglore	Karnataka	6158984565	sham@gmail.com				
9804	sundhar	private employee	Vijaywada	Andhra Pradesh	6243637666	sindhar@gmail.com				
9805	raghu	clerk	chennai	Tamilnadu	6328290767	raghu@gmail.com				
9806	raja	jr journalist	kochi	kerala	6412943868	raja@gmail.com				
9807	anthony	teacher	Hyderabad	Telangana	6497596969	anthony@gmail.com				
9808	ismail	coal mining ceo	Banglore	Karnataka	6582250070	ismail@gmail.com				
9809	farah	business	Vijaywada	Andhra Pradesh	6666903171	farah@gmail.com				
9810	zoya	business	chennai	Tamil nadu	6751556272	zoya@gmail.com				
9811	adam	software engineer	mumbai	maharastra	6836209373	adam@gmail.com				
	I	software engineer	nune	maharastra	6920862474	ricky@gmail.com				
9812	9812   ricky   software engineer   pune   maharastra   6920862474   ricky@gmail.com 11 rows)									

postgres=# sei property_no	lect * from     city	property;   owned_by	overseen_by
63589	Hyderabad	+   8892	50012
76589	Banglore	8893	50013
89589	Vijaywada	8894	50014
102589	chennai	8895	50015
115589	kochi	8896	50015
128589	Hyderabad	8897	50017
141589	Banglore	8898	50018
154589	Vijaywada	8899	50018
167589	chennai	8900	50019
180589	mumbai	8901	50013
193589	pune	8902	50018
(11 rows)			

```
postgres=# select * from viewing;
 property_no | renter_no | viewing_date
                           24-Jul-20
      63589
                    9802
      76589
                           25-Jul-20
                   9812
      89589
                   9804
                           26-Jul-20
     102589
                   9811
                           27-Jul-20
     115589
                   9806
                           28-Jul-20
     128589
                   9807
                          29-Jul-20
     141589
                   9808
                          30-Jul-20
     154589
                   9809
                          31-Jul-20
                          01-Aug-20
      167589
                   9809
                   9811 | 02-Aug-20
     180589
                           03-Aug-20
     193589
                   9812
(11 rows)
```

```
postgres=# select * from advertisement;
 ad no ad date
                     paper
                                property no
       01-Jun-20 | hindu
   22
                                      63589
   23
        02-Jun-20
                   eenadu
                                      76589
       03-Jun-20 | times
   24
                                      89589
   25
       04-Jun-20
                   sakshi
                                     102589
   26
       05-Jun-20 dc
                                     115589
   27
       06-Jun-20 | hindu
                                     128589
   28
       07-Jun-20 eenadu
                                     141589
       08-Jun-20 times
   29
                                     154589
       09-Jun-20
                  sakshi
   30
                                     167589
                  dc
   31
       10-Jun-20
                                     180589
       11-Jun-20 hindu
   32
                                     193589
(11 rows)
```

postgres=# rental no	select * from r   property_no		t;   start date	end date	renter no
	+				
2356	63589	24-Aug-20	04-Sep-20	04-Sep-22	9802
2357	76589	25-Aug-20	05-Sep-20	05-Sep-22	9812
2358	89589	26-Aug-20	06-Sep-20	06-Sep-22	9804
2359	102589	27-Aug-20	07-Sep-20	07-Sep-22	9811
2360	115589	28-Aug-20	08-Sep-20	08-Sep-22	9806
2361	128589	29-Aug-20	09-Sep-20	09-Sep-22	9807
2362	141589	30-Aug-20	10-Sep-20	10-Sep-22	9808
2363	154589	31-Aug-20	11-Sep-20	11-Sep-22	9809
2364	167589	01-Sep-20	12-Sep-20	12-Sep-22	9809
2365	180589	02-Sep-20	13-Sep-20	13-Sep-22	9811
2366	193589	03-Sep-20	14-Sep-20	14-Sep-22	9812
(11 rows)					

3. Display renter details which are unique

enter_no	name	type_of_business	city	state	phone	email
9802	   ram	private employee	+   Hyderabad	Telangana	6074331464	ram@gmail.com
9811	adam	software engineer	mumbai	maharastra	6836209373	adam@gmail.com
9809	farah	business	Vijaywada	Andhra Pradesh	6666903171	farah@gmail.com
9805	raghu	clerk	chennai	Tamilnadu	6328290767	raghu@gmail.com
9804	sundhar	private employee	Vijaywada	Andhra Pradesh	6243637666	sindhar@gmail.co
9810	zoya	business	chennai	Tamil nadu	6751556272	zoya@gmail.com
9808	ismail	coal mining ceo	Banglore	Karnataka	6582250070	ismail@gmail.com
9812	ricky	software engineer	pune	maharastra	6920862474	ricky@gmail.com
9807	anthony	teacher	Hyderabad	Telangana	6497596969	anthony@gmail.co
9806	raja	jr journalist	kochi	kerala	6412943868	raja@gmail.com
9803	sham	software engineer	Banglore	Karnataka	6158984565	sham@gmail.com

4. Give the email addresses and the renter number for all the private renters. Please ,sort them by the renter number

```
tgres=# select email, renter.renter_no from renter where renter_no is not null order by renter.renter_no;
       email
                    renter_no
ram@gmail.com
                            9802
sham@gmail.com
                            9803
sindhar@gmail.com
                            9804
raghu@gmail.com
                            9805
raja@gmail.com
                            9806
anthony@gmail.com
ismail@gmail.com
                            9807
                            9808
farah@gmail.com
                            9809
zoya@gmail.com
adam@gmail.com
                            9810
                            9811
ricky@gmail.com
                            9812
(11 rows)
```

5. Find unique property name and number of branches for each property

postgres=# sel property no	lect distinct city	* from pro	operty; overseen by
property_no	CILY	owned_by	overseen_by
180589	mumbai	8901	50013
76589	Banglore	8893	50013
154589	Vijaywada	8899	50018
128589	Hyderabad	8897	50017
63589	Hyderabad	8892	50012
167589	chennai	8900	50019
193589	pune	8902	50018
102589	chennai	8895	50015
141589	Banglore	8898	50018
115589	kochi	8896	50015
89589	Vijaywada	8894	50014
(11 rows)			

6. Create table for staff member and insert all the details of the staff members

staff_no	name	salary	city	state	phone +	email
50012	Surya	45000.00	Hyderabad	Telangana	6074331464	sj@gmail.com
50013	raju	50000.00	Banglore	Karnataka	6158984565	raju@yahoo.co.in
50014	virat	55000.00	Vijaywada	Andhra Pradesh	6243637666	v@raju.com
50015	laya	60000.00	chennai	Tamil nadu	6328290767	pooja@tcs.com
50016	pooja	65000.00	kochi	kerala	6412943868	ab@gmail.com
50017	anil	70000.00	Hyderabad	Telangana	6497596969	anil@gmail.com
50018	sunil	75000.00	Banglore	Karnataka	6582250070	sunil@gmail.com
50019	rohit	35000.00	Vijaywada	Andhra Pradesh	6666903171	rohit@gmail.com
50020	sowmya	42000.00	chennai	Tamil nadu	6751556272	sowmya@gmail.com
50021	robert	90000.00	mumbai	maharastra	6836209373	robert@gmail.com
50022	mujahed	95000.00	pune	maharastra	6920862474	mujahed@gmail.com

7. Display the count of staff in each branch and display them in descending order on count

```
postgres=# select city,count(*) from staff group by city order by count DESC;
   city | count
 Banglore
                 2
                 2
 Vijaywada
                 2
 Hyderabad
 chennai
                 2
 kochi
                 1
 mumbai
                 1
 pune
 7 rows)
```

8. Write a query to print details of the staff whose Name ends with 'h' and contains six alphabets

```
postgres=# select name from staff where name like '%h' and char_length('name')=6;
  name
-----
(0 rows)
```

9. Write a query to print details of the staff whose SALARY lies between 100000 and 500000

				/ between 10000 a		
staff_no	name	salary	city	state	phone	email
50012	Surya	45000.00	Hyderabad	Telangana	6074331464	sj@gmail.com
50013	raju	50000.00	Banglore	Karnataka	6158984565	raju@yahoo.co.in
50019	rohit	35000.00	Vijaywada	Andhra Pradesh	6666903171	rohit@gmail.com
50020	sowmya	42000.00	chennai	Tamil nadu	6751556272	sowmya@gmail.com
(4 rows)						

10. Write down a query to find out the Name, Address and Position of the branch staff whose salary is the second highest without using TOP or limit method