

## My SQL Assignment

1) Write a query to display the policytypeid, policytypename, description of all the car's policy details.

```
SELECT policy_type_id,policy_type_name,description FROM policy_sub_types  
pst LEFT JOIN ref_policy_types rpt ON pst.policy_type_code =  
rpt.policy_type_code WHERE rpt.policy_type_name = "car";
```

policy_type_id	policy_type_name	description
6893	car	theft
6894	car	accident

2) Write a query to display the policytypecode,no of polcies in each code with alias name NO\_OF\_POLICIES.

```
SELECT policy_type_code, COUNT(policy_type_code) AS NO_OF_POLICIES  
FROM policy_sub_types GROUP BY policy_type_code;
```

policy_type_code	NO_OF_POLICIES
58539	1
58683	2
58934	2

3) Write a query to display the userid,firstname,lastname, email,mobilenos who are residing in Chennai.

```
SELECT user_id,firstname,lastname,email,mobilenos FROM user_details ud  
LEFT JOIN address_details ad ON ud.address_id = ad.address_id  
WHERE ad.city="chennai";
```

User_id	firstname	lastname	email	mobilenos
1111	raju	reddy	raju@gmail.com	9854261456

4) Write a query to display the userid, firstname lastname with alias name USER\_NAME,email,mobileno who has taken the car polycies.

**SELECT** user\_id,**CONCAT**(firstname,' ',lastname) **AS**  
USER\_NAME,email,mobileno **FROM** user\_details **WHERE** user\_id in (**SELECT**  
user\_id **FROM** user\_policies up **LEFT JOIN** policy\_sub\_types pst **ON**  
up.policy\_type\_id = pst.policy\_type\_id **WHERE** pst.policy\_type\_code = 58934);

User_id	USER_NAME	email	mobileno
1111	raju reddy	raju@gmail.com	9854261456
2222	vamsi krishna	vamsi@gmail.com	9854261463
3333	naveen reddy	naveen@gmail.com	9854261496

5) Write a query to display the userid, firstname,last name who has taken the car policies but not home ploicies.

**SELECT DISTINCT** u.user\_id,u.firstname,u.lastnam **FROM** user\_details u  
**JOIN** user\_policies up **ON** u.user\_id = up.user\_id  
**JOIN** policy\_sub\_types pst **ON** up.policy\_type\_id = pst.policy\_type\_id  
**JOIN** ref\_policy\_types rpt **ON** pst.policy\_type\_code =  
rpt.policy\_type\_code **WHERE** rpt.policy\_type\_name = 'car' **AND**  
u.user\_id **NOT IN** ( **SELECT** up2.user\_id **FROM** user\_policies up2  
**JOIN** policy\_sub\_types pst2 **ON** up2.policy\_type\_id =  
pst2.policy\_type\_id **JOIN** ref\_policy\_types rpt2 **ON**  
pst2.policy\_type\_code = rpt2.policy\_type\_code **WHERE**  
rpt2.policy\_type\_name = 'home');

User_id	firstname	lastname
2222	vamsi	krishna
3333	naveen	reddy

6) Write a query to display the policytypecode, policytype name which policytype has maximum no of policies.

```
SELECT rpt.policy_type_code, rpt.policy_type_name FROM
ref_policy_types rpt JOIN (SELECT policy_type_code, COUNT(*) AS
policy_count FROM policy_sub_types GROUP BY policy_type_code) cnt
ON rpt.policy_type_code = cnt.policy_type_code WHERE
cnt.policy_count = (SELECT MAX(policy_count) FROM (SELECT COUNT(*)
AS policy_count FROM policy_sub_types GROUP BY policy_type_code)
x);
```

policy_type_code	policy_type_name
58683	life
58934	car

7) Write a query to display the userid, firtsname, lastname, city state whose city is ending with 'bad'.

```
SELECT ud.user_id,ud.firstname,ud.lastname,ad.city,ad.state FROM
user_details ud JOIN address_details ad ON ud.address_id =
ad.address_id WHERE ad.city LIKE "%bad";
```

User_id	firstname	lastname	city	state
2222	vamsi	krishna	hyderabad	andhrapradesh

8) Write a query to display the userid, firstname, lastname ,ploicyno, dateregistered who has registered before may 2012.

```
SELECT ud.user_id,ud.firstname,ud.lastname,up.policy_no,
up.date_registered FROM user_details ud JOIN user_policies up ON
ud.user_id=up.user_id WHERE date_registered <'2012-05-01';
```

User_id	firstname	lastname	policy_no	date_registered
1111	raju	reddy	689314	1994-04-18
4444	raghava	rao	689420	2012-04-09

9) Write a query to display the userid, firstname, lastname who has taken more than one policies.

```
SELECT ud.user_id,ud.firstname,ud.lastname FROM user_details ud JOIN  
(SELECT user_id,COUNT(*) count_policies FROM user_policies GROUP BY  
user_id ) uc ON ud.user_id = uc.user_id WHERE uc.count_policies > 1;
```

User_id	firstname	lastname
1111	raju	reddy

10) Write a query to display the policytypecode, policytypename, policytypeid, userid, ploicyno whose maturity will fall in the month of august 2013.

```
SELECT rpt.policy_type_code, rpt.policy_type_name, ps.policy_type_id,  
up.user_id, up.policy_no FROM user_policies up  
JOIN policy_sub_types ps ON up.policy_type_id = ps.policy_type_id  
JOIN ref_policy_types rpt ON ps.policy_type_code = rpt.policy_type_code  
WHERE DATE_ADD(up.date_registered, INTERVAL ps.maturityperiod YEAR)  
BETWEEN '2013-08-01' AND '2013-08-31';
```

11) Write a query to display the policytypecode, policytypename, policytypeid whose maturity amount is the double than the total paid amount.

```
SELECT DISTINCT ps.policy_type_code, rpt.policy_type_name,  
ps.policy_type_id FROM policy_sub_types ps  
JOIN ref_policy_types rpt ON ps.policy_type_code = rpt.policy_type_code  
JOIN user_policies up ON ps.policy_type_id = up.policy_type_id  
JOIN policy_payments pp ON up.policy_no = pp.policy_no  
GROUP BY ps.policy_type_code, rpt.policy_type_name, ps.policy_type_id,  
ps.maturityamount  
HAVING ps.maturityamount = 2 * SUM(pp.amount);
```

12) Write a query to display the userid, total amount paid by the customer with alias name total\_amount.

**SELECT** user\_id,SUM(amount + **COALESCE**(fine,0)) **AS** total\_amount **FROM** policy\_payments **GROUP BY** user\_id;

User_id	Total_amount
1111	390200
4444	100000
3333	20000
2222	20000

13) Write a query to display the user\_id, policy\_no, total amount paid by the customer for the each policies.

**SELECT** user\_id, policy\_no, SUM(amount + **COALESCE**(fine,0)) **AS** total\_amount **FROM** policy\_payments **GROUP BY** user\_id, policy\_no;

User_id	Policy_no	Total_amount
1111	689314	350200
4444	689420	100000
1111	689316	20000
3333	689320	20000
1111	689317	20000
2222	689318	20000

14) Write a query to display the user\_id, policy\_no, balance\_amount for each policies.

**SELECT** up.user\_id, up.policy\_no, x.maturityamount - ta.total\_amount **AS** Balance Amount **FROM** user\_policies up **JOIN** (**SELECT** policy\_no,SUM(amount + **COALESCE**(fine,0)) **AS** total\_amount **FROM** policy\_payments **GROUP BY** policy\_no) ta **ON** up.policy\_no = ta.policy\_no **JOIN** (**SELECT** policy\_type\_id,maturityamount **FROM** policy\_sub\_types) x **ON** up.policy\_type\_id = x.policy\_type\_id;

User_id	Policy_no	Balance amount
1111	689314	1149800
1111	689316	480000
1111	689317	180000
2222	689318	180000
3333	689320	180000
4444	689420	1400000

15) write a query to display the user\_id,policy\_no, balancepayment years with alias name BALANCE\_YEARS for all the customer for each policies.

```
SELECT up.user_id, up.policy_no, (ps.yearsofpayments - COUNT(pp.receipno))
AS BALANCE_YEARS FROM user_policies up JOIN policy_sub_types ps ON
up.policy_type_id = ps.policy_type_id LEFT JOIN policy_payments pp ON
up.policy_no = pp.policy_no GROUP BY up.user_id, up.policy_no,
ps.yearsofpayments;
```

User_id	Policy_no	Balance amount
1111	689314	0
1111	689316	0
1111	689317	0
2222	689318	0
3333	689320	0
4444	689420	5

16) Write a query to display the user details userid,firstname,last who has taken car, home and life loans.

```
SELECT ud.user_id,ud.firstname,ud.lastname FROM user_details ud
JOIN user_policies up ON ud.user_id = up.user_id
JOIN policy_sub_types pst ON up.policy_type_id = pst.policy_type_id
```

**JOIN** ref\_policy\_types rpt **ON** pst.policy\_type\_code = rpt.policy\_type\_code  
**WHERE** rpt.policy\_type\_name **IN** ('car','home','life') **GROUP BY**  
ud.user\_id,ud.firstname,ud.lastname  
**HAVING COUNT(DISTINCT** rpt.policy\_type\_name) = 3;

User_id	firstname	lastname
1111	raju	reddy

17) Write a query to select policy\_type\_code,total amount paid by all the customers with alias name total\_amount for each policy department.

**SELECT** ps.policy\_type\_code, **SUM**(pp.amount) **AS** total\_amount  
**FROM** policy\_payments pp **JOIN** user\_policies up **ON** pp.policy\_no =  
up.policy\_no **JOIN** policy\_sub\_types ps **ON** up.policy\_type\_id =  
ps.policy\_type\_id **GROUP BY** ps.policy\_type\_code;

Policy_type_code	Total_amount
58683	450000
58539	20000
58934	60000

18) Write a query to select user\_id,user\_name,policy\_type\_code,  
policy\_type\_id of users who has registered more than one policy type unde  
same policy code.

**SELECT** u.user\_id, **CONCAT**(u.firstname,' ',u.lastname) **AS** user\_name,  
ps.policy\_type\_code, ps.policy\_type\_id **FROM** user\_details u  
**JOIN** user\_policies up **ON** u.user\_id = up.user\_id  
**JOIN** policy\_sub\_types ps **ON** up.policy\_type\_id = ps.policy\_type\_id  
**GROUP BY** u.user\_id, user\_name, ps.policy\_type\_code  
**HAVING COUNT(DISTINCT** ps.policy\_type\_id) > 1;

19) Write a query to display the policy\_type\_code, policytype name in which policy department has min number of policies registered.

```
SELECT rpt.policy_type_code, rpt.policy_type_name FROM ref_policy_types
rpt JOIN policy_sub_types ps ON rpt.policy_type_code = ps.policy_type_code
GROUP BY rpt.policy_type_code, rpt.policy_type_name HAVING COUNT(*) = (
SELECT MIN(cnt) FROM ( SELECT COUNT(*) cnt FROM policy_sub_types
GROUP BY policy_type_code ) t );
```

policy_type_code	policy_type_name
58539	home

20) Write a query to display the user\_id, user\_name, address, phoneno, policytypecode, policytypeid, policytypename, who has complemented all payments for the policies.

```
SELECT u.user_id, CONCAT(u.firstname, ' ', u.lastname) AS user_name,
a.addressline1 AS address, u.mobilenno AS phoneno, ps.policy_type_code,
ps.policy_type_id, rpt.policy_type_name FROM user_details u
JOIN address_details a ON u.address_id = a.address_id
JOIN user_policies up ON u.user_id = up.user_id
JOIN policy_sub_types ps ON up.policy_type_id = ps.policy_type_id
JOIN ref_policy_types rpt ON ps.policy_type_code = rpt.policy_type_code
JOIN policy_payments pp ON up.policy_no = pp.policy_no
GROUP BY u.user_id, up.policy_no, ps.yearsofpayments
HAVING COUNT(pp.receipno) = ps.yearsofpayments;
```

User_id	USER_NAME	address	phoneno	Policy_ type_code	Policy_ type_id	policy_ type_ name
1111	raju reddy	sholingapur	9854261456	58683	6896	life
1111	raju reddy	sholingapur	9854261456	58539	6895	home
3333	naveen reddy	iroli	9854261496	58934	6894	car
1111	raju reddy	sholingapur	9854261456	58934	6894	car
2222	vamsi krishna	kphb	9854261463	58934	6894	car



21) write a query to display the user\_id, user\_name, address,phoneno,policytypecode,policytypeid,policytypename,date ofd register who has registered latest 2.

```
SELECT u.user_id, CONCAT(u.firstname,' ',u.lastname) AS user_name,
a.addressline1 AS address, u.mobilenno AS phoneno, ps.policy_type_code,
ps.policy_type_id, rpt.policy_type_name, up.date_registered
FROM user_policies up JOIN user_details u ON up.user_id = u.user_id
JOIN address_details a ON u.address_id = a.address_id
JOIN policy_sub_types ps ON up.policy_type_id = ps.policy_type_id
JOIN ref_policy_types rpt ON ps.policy_type_code = rpt.policy_type_code
ORDER BY up.date_registered DESC LIMIT 2;
```

User_ id	USER_ NAME	address	Phoneno	Policy_ type_ code	Policy_ type_ id	policy_ type_ name	Date_ registered
2222	vamsi krishna	kphb	9854261463	58934	6894	car	2012-06-21
1111	raju reddy	sholingapur	9854261456	58934	6894	car	2012-06-20