

## 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,mobileno who are residing in Chennai.

```
SELECT user_id,firstname,lastname,email,mobileno 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          | mobileno   |
|---------|-----------|----------|----------------|------------|
| 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 polcies.

```
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.lastname 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 user\_id, 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.yearsopfpayments - 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.yearsopfpayments;
```

| 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,lastname 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 under 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.mobilenumber 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.yearsofpayements
HAVING COUNT(pp.receipno) = ps.yearsofpayements;
```

| User_id | USER_NAME     | address    | phoneno    | Policy_type_code | Policy_type_id | policy_type_name |
|---------|---------------|------------|------------|------------------|----------------|------------------|
| 1111    | raju reddy    | sholiganur | 9854261456 | 58683            | 6896           | life             |
| 1111    | raju reddy    | sholiganur | 9854261456 | 58539            | 6895           | home             |
| 3333    | naveen reddy  | iroli      | 9854261496 | 58934            | 6894           | car              |
| 1111    | raju reddy    | sholiganur | 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    | sholiganur | 9854261456 | 58934            | 6894           | car              | 2012-06-20      |