

## Assignment No.3

```
SQL> CREATE TABLE customer(  
2  account_no int PRIMARY KEY,  
3  name varchar(20),  
4  branch varchar(10),  
5  bal int,  
6  cust_type varchar(10) CHECK (cust_type IN ('loan', 'savings')) NOT NULL  
7 );
```

```
SQL> INSERT INTO customer VALUES (1,'Soham','Pen',10000,'savings');
```

```
SQL> INSERT INTO customer VALUES (2,'Soham','Pen',100000,'loan');
```

```
SQL> INSERT INTO customer VALUES (8, 'ATAHRVA', 'Alibag', 50000, 'savings');
```

```
SQL> INSERT INTO customer VALUES (9, 'ATAHRVA', 'Nigdi', 10000, 'loan');
```

```
SQL> INSERT INTO customer VALUES (10, 'VEDANT', 'Nigdi', 20000, 'savings');
```

```
SQL> INSERT INTO customer VALUES (12, 'MRUNALINI', 'Alibag', 40000, 'savings');
```

```
SQL> INSERT INTO customer VALUES (13, 'MRUNALINI', 'Satara', 50000, 'loan');
```

```
SQL> INSERT INTO customer VALUES (14, 'HARI', 'Nigdi', 60000, 'savings');
```

```
SQL> INSERT INTO customer VALUES (16, 'ARYAN', 'Alibag', 80000, 'savings');
```

**SQL> --1.Find all customers who have an account or loan or both at bank.**

```
SQL> SELECT DISTINCT(NAME) FROM customer;
```

NAME

-----

HARI

ARYAN

Soham

VEDANT

MRUNALINI

ATAHRVA

6 rows selected.

**SQL> --2.Write SQL statement returns the cities (only distinct values)**

```
SQL> SELECT DISTINCT(BRANCH) FROM customer;
```

BRANCH

-----

Pen

Alibag

Nigdi

Satara

**SQL> --3. Write SQL statement lists all depositor and borrower.**

```
SQL> DECLARE
```

```
2  named customer.name%TYPE;
```

```
3  BEGIN
```

```
4  DBMS_OUTPUT.PUT_LINE('Borrowers : ');
```

```
5  FOR names IN (SELECT NAME FROM customer WHERE CUST_TYPE='loan') LOOP
```

```
6    named := names.NAME; -- Fetch the value of the 'NAME' column into the 'named' variable
```

```
7    DBMS_OUTPUT.PUT_LINE(named);
```

```
8  END LOOP;
```

```
9  DBMS_OUTPUT.PUT_LINE('Depositors : ');
```

```
10 FOR names IN (SELECT NAME FROM customer WHERE CUST_TYPE='savings') LOOP
```

```
11  named := names.NAME;
```

```
12  DBMS_OUTPUT.PUT_LINE(named);
```

```
13 END LOOP;
```

```
14 END;
```

```
15 /
```

Borrowers :

Soham

ATAHRVA

MRUNALINI

Depositors :

Soham

ATAHRVA

VEDANT

MRUNALINI

HARI

ARYAN

PL/SQL procedure successfully completed.

**SQL> --4. Find all customers who have both account and loan at bank.**

```
SQL> SELECT DISTINCT(NAME) FROM CUSTOMER WHERE NAME IN (SELECT NAME FROM CUSTOMER WHERE
CUST_TYPE = 'savings') AND NAME IN (SELECT NAME FROM CUSTOMER WHERE CUST_TYPE = 'loan');
```

NAME

-----

Soham

MRUNALINI

ATAHRVA

**SQL> --5. Find all customer who have account but no loan at the bank.**

```
SQL> SELECT DISTINCT(NAME) FROM CUSTOMER WHERE NAME IN (SELECT NAME FROM CUSTOMER WHERE
CUST_TYPE = 'savings') AND NAME NOT IN (SELECT NAME FROM CUSTOMER WHERE CUST_TYPE = 'loan');
```

NAME

-----

ARYAN

HARI

VEDANT

**SQL> --6. Calculate total loan amount given by bank.**

```
SQL> SELECT SUM(BAL) FROM Customer WHERE cust_type = 'loan';
```

SUM(BAL)

-----

160000

**SQL> --7. Find average account balance at Akurdi branch.**

```
SQL> SELECT AVG(BAL) FROM Customer WHERE branch = 'Nigdi' AND cust_type = 'savings';
```

AVG(BAL)

-----

**SQL> --8. Find the average account balance at each branch**

SQL&gt; DECLARE

```

2  v_branch customer.branch%TYPE;

3  v_avg_savings_balance NUMBER;

4  BEGIN

5  FOR REC IN (SELECT DISTINCT BRANCH FROM Customer) LOOP

6  SELECT AVG(BAL) INTO v_avg_savings_balance FROM customer WHERE branch = REC.branch AND
CUST_TYPE='savings';

7  DBMS_OUTPUT.PUT_LINE(REC.branch || ' ' || v_avg_savings_balance);

8  END LOOP;

9  END;

10 /

```

Pen 10000

Alibag 56666.66666666666666666666666666666667

Nigdi 40000

Satara

PL/SQL procedure successfully completed.

**SQL> --9. Find no. of depositors at each branch.**

```
SQL> SELECT COUNT(BRANCH),BRANCH FROM CUSTOMER WHERE CUST_TYPE = 'savings' GROUP BY BRANCH;
```

COUNT(BRANCH) BRANCH

1 Pen

### 3 Alibag

2 Nigdi

**SQL> --10. Find the branches where average account balance > 12000.**

SQL&gt; DECLARE

```
2 v_branch customer.branch%TYPE;
3 v_avg_savings_balance NUMBER;
```

