

SQL> connect

Enter user-name: VTU30131

Enter password:

Connected

SQL> SET SERVEROUTPUT ON;

SQL> DECLARE

```
2  total_age  NUMBER := 0;
3  num_players NUMBER := 0;
4  avg_age    NUMBER := 0;
5 BEGIN
6  FOR player_rec IN (SELECT age FROM player) LOOP
7      total_age := total_age + player_rec.age;
8      num_players := num_players + 1;
9  END LOOP;
10 IF num_players > 0 THEN
11     avg_age := total_age / num_players;
12 END IF;
13 DBMS_OUTPUT.PUT_LINE('Total Players: ' || num_players);
14 DBMS_OUTPUT.PUT_LINE('Total Age: ' || total_age);
15 DBMS_OUTPUT.PUT_LINE('Average Age: ' || avg_age);
16 END;
17 /
```

Total Players: 5

Total Age: 145

Average Age: 29

PL/SQL procedure successfully completed.

SQL> DECLARE

```
2  v_playerid player.playerid%TYPE := 'P106';
3  v_fname    player.fname%TYPE := 'Rohit';
4  v_lname    player.lname%TYPE := 'Sharma';
5  v_age      player.age%TYPE := 37;
6  v_dob      player.dob%TYPE := TO_DATE('30-APR-1987','DD-MON-YYYY');
7  v_role     player.role%TYPE := 'Batsman';
8  v_teamid   player.teamid%TYPE := 'T01';
9 BEGIN
10 INSERT INTO player(playerid, fname, lname, age, dob, role, teamid)
11 VALUES (v_playerid, v_fname, v_lname, v_age, v_dob, v_role, v_teamid);
12 DBMS_OUTPUT.PUT_LINE('Player record inserted successfully!');
13 EXCEPTION
14 WHEN OTHERS THEN
15     DBMS_OUTPUT.PUT_LINE('Error inserting player: ' || SQLERRM);
16 END;
17 /
```

Player record inserted successfully!

PL/SQL procedure successfully completed.

SQL> SELECT playerid, fname, lname, role FROM player;

PLAYERID FNAME LNAME ROLE

```
-----
P101     Dhoni  M.S.   Captain
P102     Rajat  Patidar Batsman
P103     Hardik Pandya Allrounder
P104     Virat  Kohli   Batsman
P106     Rohit  Sharma  Batsman
```

SQL> CREATE OR REPLACE FUNCTION get_total_matches

```
2 (p_playerid IN player.playerid%TYPE)
3 RETURN NUMBER
4 IS
5     v_total_matches NUMBER;
6 BEGIN
7     SELECT NVL(totalmatchesplayed,0)
8     INTO v_total_matches
9     FROM player
10    WHERE playerid = p_playerid;
11    RETURN v_total_matches;
12 EXCEPTION
13    WHEN NO_DATA_FOUND THEN
14        RETURN 0;
15 END;
16 /
```

Function created.

SQL> SELECT get_total_matches('P101') AS total_matches FROM dual;

TOTAL_MATCHES

5

SQL> SET SERVEROUTPUT ON;

SQL> CREATE OR REPLACE PROCEDURE print_even_players IS

```
2 BEGIN
3     FOR rec IN (SELECT playerid FROM player
4                 WHERE MOD(TO_NUMBER(SUBSTR(playerid,-1)),2)=0
5                 ORDER BY playerid) LOOP
6         DBMS_OUTPUT.PUT_LINE('Even Player ID: ' || rec.playerid);
7     END LOOP;
8 END;
9 /
```

Procedure created.

SQL> EXEC print_even_players;

Even Player ID: P102

Even Player ID: P104

PL/SQL procedure successfully completed.

SQL>commit;