

Task-6: procedures, function and loops.

17/25

Aims: To write a programming using PL/SQL procedures, loops on number theory and business like.

1. Write a PL/SQL block that calculates the average of player and displays the result.

DECLARE

Total-age NUMBER :=  
num-player NUMBER := 0;  
avg-age NUMBER := 0;

BEGIN

-- USING a cursor to loop through all players  
FOR player-rec IN (SELECT Age FROM player) LOOP

Total-age := total-age + player-rec - summing up  
the ages.

num-player := num-player + 1;

-- Calculating the average age.  
If num-player > 0 THEN

avg-age := total-age / num-player;

-- Displays the result

DBMS\_OUTPUT.PUT\_LINE

DBMS\_OUTPUT.PUT\_LINE

DBMS\_OUTPUT.PUT\_LINE

write PL/SQL block that insert a new player record into  
player table.

DECLARE

Total-age NUMBER := 0;

num-player NUMBER := 0;

avg-age NUMBER := 0;

BEGIN

V-TeamID VARCHAR(4) := PlayerID : you can generate  
a unique player ID needed.

V - Team ID VARCHAR(6) = & TEAM\_ID  
V - FName VARCHAR(30) = & FName;  
V - LName VARCHAR(30) = & L\_Name;  
V - age NUMBER(30) = & age;  
V - age NUMBER(2,5) = & age;  
V - Date of Birth DATE = TO\_DATE(&DOB - YYYY-MM-DD);  
V - Playing Role VARCHAR(25) = & Playing\_Role;  
V - email VARCHAR(50) = & email;  
V - contact\_no NUMBER(4) = & phone; -- Replace with actual  
contact Number

BEGIN

INSERT INTO Player (Player\_ID, Team\_ID, FName, LName, V-age,  
V-Date of Birth), V-email, V-contact-no);  
COMMIT;

DBMS\_OUTPUT.PUT\_LINE (Player record inserted successfully);

WHEN OTHER THEN

DBMS\_OUTPUT.PUT\_LINE (Error / SQL Error);  
ROLL BACK;

END;

CREATE OR REPLACE FUNCTION get\_total\_team\_board  
VARCHAR) RETURN NUMBER IS

V - Total Teams NUMBER := 0;

BEGIN

SELECT COUNT(\*) INTO VTeam FROM WHITET Board\_ID,  
Board\_ID;

RETURN - VTotal Teams;

EXCEPTION

RETURN 0;

WHEN OTHER THEN

-- Handle other exceptions as needed.

RETURN -1;

CREATE OR REPLACE PROCEDURE Get Even Number player IDs  
 IS BEGIN  
 FOR player\_rec IN (SELECT player\_ID FROM player WHERE  
 ID - NUMBER(player\_ID) MOD 2 > 0)  
 LOOP  
 DBMS\_OUTPUT.PUT\_LINE ('Even - Number Player ID: ' || player\_rec.  
 player\_ID);  
 END LOOP;  
 END Get Even Number player IDs;

Result: Thus, the RL/SG completed and result are verified and loops  
 on Number theory and successfully

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EX NO.	G
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	✓
VIVA VOCE (5)	4
RECORD (5)	5
TOTAL (20)	19
SIGN WITH DATE	✓