

Task 7: Triggers, views and exceptions

Aim: To conduct events, views, exceptions on operations for restricting phenomenon.

a) To create a trigger in PL/SQL that automatically inserts a new record in the match_result table when a new record is inserted into the match table.

b) To create a view that displays the details of players along with their team details.

c) To write a non-recursive PL/SQL Procedure to retrieve even numbered player IDs registered for any tournament.

To create a trigger in PL/SQL that automatically inserts a new record in the match_result table when a new record is inserted into the match table.

create or replace trigger insert_match_result

after insert on match

for each row

BEGIN

Insert into match_result (match ID, Team ID, result)

values (:new, match ID, :new Team ID 'Pending'); -- Assuming a default value of 'Pending' for result.

END;

To create a view that displays the details of players along with their team details.

SQL > create view player_team_details as select p.player ID, p.fname as player name, p.team ID, p.coach as player coach, p.captain, (select t.name from team t where

t.team ID = p.team ID) as team name, (select t.coach from team t where t.team ID = p.team ID) as team coach,

(select t.captain from team where t.team ID = p.team ID) as

team captain from player p; SQL > select * from player_team_details;

To write a non-recursive PL/SQL Procedure to retrieve even numbered player IDs registered for any tournament.

create or replace procedure

get_even_player_ids_for_tournament (in_tournament_id number,

out_even_player_ids sys.odci number list) as

BEGIN

out_even_player_ids := sys.odci number list (); -- Initializing collection

for the specified tournament.
 For Player-rec IN (select PlayerID from Player where
 Tournament ID = in-Tournament-id And mod (PlayerID,2)=1)
 loop
 out-even-player-ids : EXTEND;
 out-even-player-ids (out-even-player-ids.count);
 Player-rec PlayerID;
 END loop;
 END;

Declare
 tournament_id number := 123; -- replace with the desired
 tournament id even-player-ids sys.ODCINumber LIST;
 BEGIN
 get even Player IDs for Tournament (tournament_id, even-
 Player-ids); --- you can now use the even-player-ids
 collection as needed.
 --- for example, to print the even player IDs:
 For i IN 1..even-player-ids.count loop
 DBMS_output.Put_line ('Even Player ID: ' || even-play-ids(i))
 END loop;
 END;

EX NO.	DATE
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	20
WITH DATE	

Result:
 Thus the triggers views and exceptions Experiment was
 successfully completed and results are verified.