Task 7: Triggers, Views and Exceptions

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

a) To create 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.

```
CREATE OR REPLACE TRIGGER insert_match_result
AFTER INSERT ON match
FOR EACH ROW
BEGIN
    INSERT INTO match_result(MatchID, TeamID, Result)
    values (:new.MatchID, :new.TeamID, 'Pending');
    --Assuming a default- values of 'Pending' for Result.
END;
/
```

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

```
SQL > CREATE VIEW PlayerTeamDetails AS SELECT P.PlayerID,
P.fname AS PlayerName, P.teamID, P.Coach AS Player Coach,
P.Captain AS PlayerCaptain, (SELECT t.name from team
t (WHERE t.teamID /P.teamID = P.teamID) AS
TeamCoach, (SELECT t.Captain FROM team t WHERE
t.teamID = P.teamID) AS Team Captain FROM PlayerP;

SQL > select * from PlayerTeamDetails;
```

To write a non-recursive pl/sql procedure to retrive even-numbered PlayerID's registered for any tournament

```sql
CREATE OR REPLACE PROCEDURE
GetEvenPlayerIDs ForTournament (in_tournament_id NUMBER,
Out_even_Player_ids SYS.ODCINUMBER LIST) AS
BEGIN
Out_even_Player_ids := SYS.ODCINUMBERLIST();
-- Initialize the collection

-- Populate the collection with even-numbered PlayerIDs
-- for the specified tournament
For Player_rec IN (SELECT PlayerID FROM Players WHERE
Tournament ID = in_tournament_id AND MOD(PlayerID,2)=0)
LOOP
    Out_even_Player_ids.EXTEND;
    Out_even_Player_ids (out_even_Player_ids.count):=
Player_rec.PlayerID;
END LOOP;
END;
/

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    tournament_id NUMBER := 123; -- Replace with the desired tournamentId
    even_player_ids SYS.ODCINUMBERLIST;
BEGIN
GET EvenPlayersIDs For Tournament (tournament id, even_Players_ids);
-- You can now use the even_Player_ids collection as needed
-- for example to print the even PlayersIDs
For i IN 1..even_Players_ids.COUNT LOOP
    DBMS_OUTPUT.PUT_LINE ('Even PX NO.
even_Player_ids(i));
END LOOP;
END;
/
```

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

Result: Thus, the triggers, views and exception experiment was successfully completed results are verified.