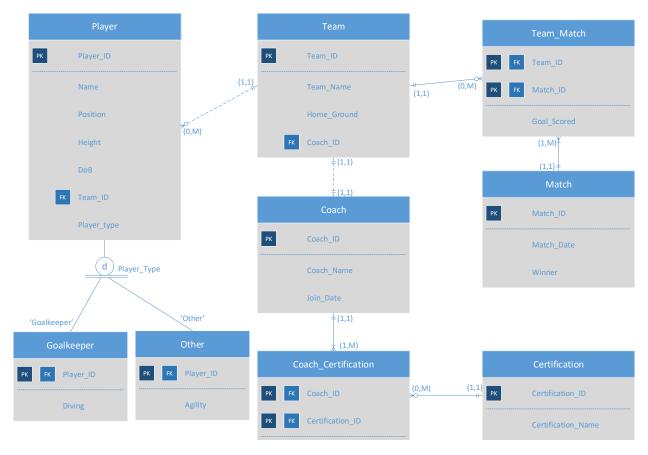
# **Project Report 2**



The following SQL statements were used to create tables and to create constraints. First, I created table with all the constraints except foreign key. After creating all the tables I used Alter command to alter table and added Foreign key constrains in the tables where it was required.

```
CREATE TABLE PLAYER
(

Player_ID NUMBER(4),
Player_Name Varchar2(25),
Player_Position char(2),
Height NUMBER(4,1),
DoB Date,
Team_ID Number(4),
Player_Type Char(10),

CONSTRAINT Player_PlayerID_PK Primary KEY (Player_ID),
CONSTRAINT Player_Type_ck CHECK (Player_Type IN ('Goalkeeper', 'Other'))
);

CREATE TABLE TEAM
```

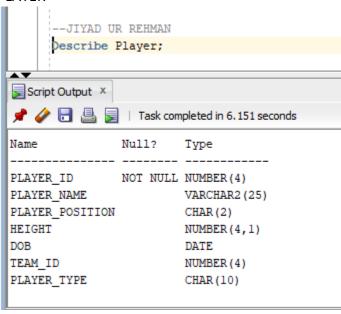
```
Team_ID Number(4),
Team_Name Varchar2(25),
Home_Ground VARCHAR2(25),
Coach_ID Number(4) NOT NULL,
CONSTRAINT Team_TeamID_PK Primary KEY (Team_ID),
CONSTRAINT Team_CoachID_PK UNIQUE (Coach_ID)
);
CREATE TABLE TEAM_MATCH
Team_ID Number(4),
Match_ID Number(4),
Goal_Scored Number(2) DEFAULT 0 NOT NULL,
CONSTRAINT Team_Match_PK Primary KEY (Team_ID, Match_ID)
);
CREATE TABLE MATCH
Match_ID Number(4),
Winner Varchar2(25),
Match_Date Date,
CONSTRAINT Match_MatchID_PK Primary KEY (Match_ID)
);
CREATE TABLE COACH
Coach_ID Number(4),
Coach_Name Varchar2(25),
Join_Date Date,
CONSTRAINT Coach_CoachID_PK Primary KEY (Coach_ID)
);
CREATE TABLE COACH_CERTIFICATION
Coach ID Number(4),
CERTIFICATION_ID Number(4),
```

```
CONSTRAINT Coach_Certification_PK Primary KEY (Coach_ID, CERTIFICATION_ID)
);
CREATE TABLE CERTIFICATION
CERTIFICATION_ID Number(4),
CERTIFICATION_Name Varchar2(25),
CONSTRAINT Certification_CertificationID_PK Primary KEY (CERTIFICATION_ID)
);
CREATE TABLE GOALKEEPER
Player_ID NUMBER(4),
Diving Number(2),
CONSTRAINT GOALKEEPER_PlayerID_PK Primary KEY (Player_ID)
);
CREATE TABLE OTHER
Player_ID NUMBER(4),
Agility Number(2),
CONSTRAINT OTHER_PlayerID_PK Primary KEY (Player_ID)
);
-- ADDING FOREIGN KEYS
--Players
ALTER TABLE PLAYER
 ADD CONSTRAINT Player_TeamID_FK FOREIGN KEY (Team_ID)
    REFERENCES TEAM (Team_ID);
--Team
ALTER TABLE TEAM
  ADD CONSTRAINT Team_CoachID_FK FOREIGN KEY (Coach_ID)
    REFERENCES COACH (Coach_ID);
--Team Match
ALTER TABLE TEAM_MATCH
 ADD CONSTRAINT Team_Match_TeamID_FK FOREIGN KEY (Team_ID)
```

```
REFERENCES TEAM (Team ID);
ALTER TABLE TEAM_MATCH
  ADD CONSTRAINT Team_Match_MatchID_FK FOREIGN KEY (Match_ID)
    REFERENCES MATCH (Match_ID);
--Coach_Certification
ALTER TABLE Coach_Certification
  ADD CONSTRAINT Coach Certification CoachID FK FOREIGN KEY (Coach ID)
    REFERENCES COACH (Coach_ID);
ALTER TABLE Coach Certification
  ADD CONSTRAINT Coach_Certification_CertificationID_FK FOREIGN KEY (Certification_ID)
    REFERENCES CERTIFICATION (Certification_ID);
--Goalkeeper
ALTER TABLE Goalkeeper
  ADD CONSTRAINT Goalkeeper_PlayerID_FK FOREIGN KEY (Player_ID)
    REFERENCES PLAYER (Player_ID);
--Other
ALTER TABLE Other
  ADD CONSTRAINT Other_PlayerID_FK FOREIGN KEY (Player_ID)
    REFERENCES PLAYER (Player_ID);
```

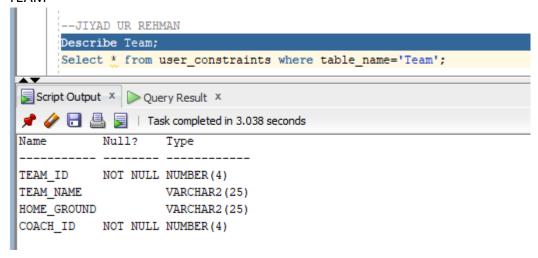
## Tables and its structure:

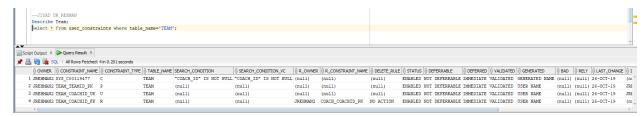
## **PLAYER**



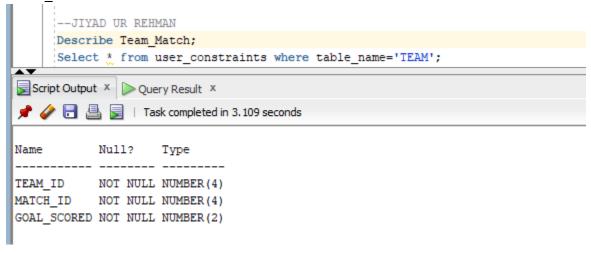


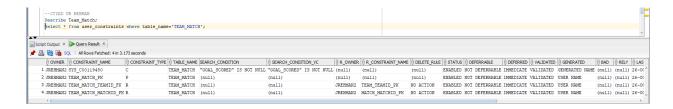
### **TEAM**



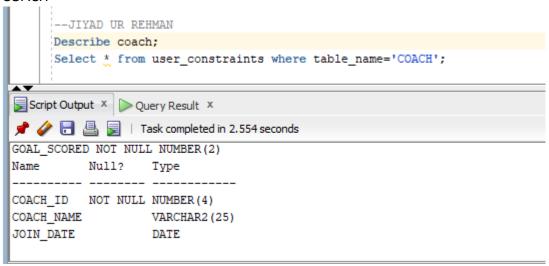


## TEAM MATCH



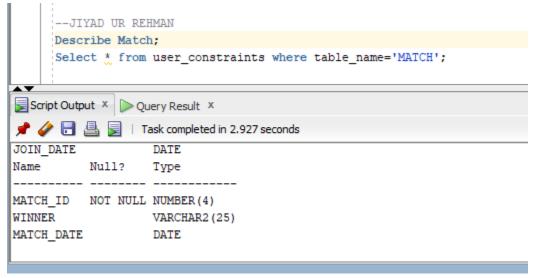


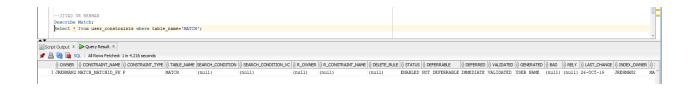
## COACH

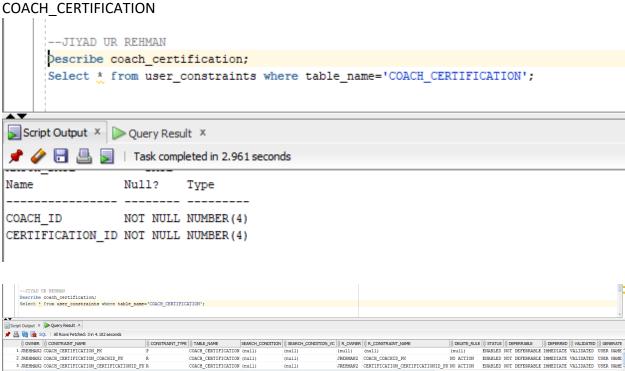




## **MATCH**

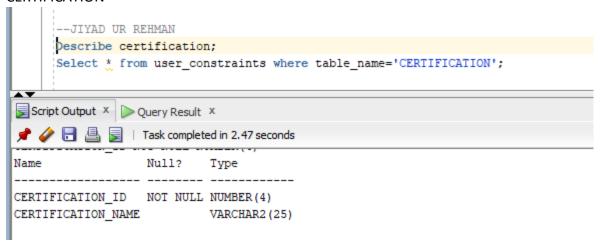






## **CERTIFICATION**

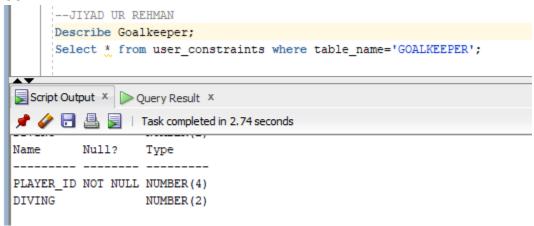
3 JREHMAN2 COACH\_CERTIFICATION\_CERTIFICATIONID\_FK R



```
--JITAD UR REMOND
Describe certification;
Select / Trow user_Constraints where table_name='CERIFICATION';

Select / Trow user_Constraints where table_name='CERIF
```

#### **GOALKEEPER**





## **OTHER**

