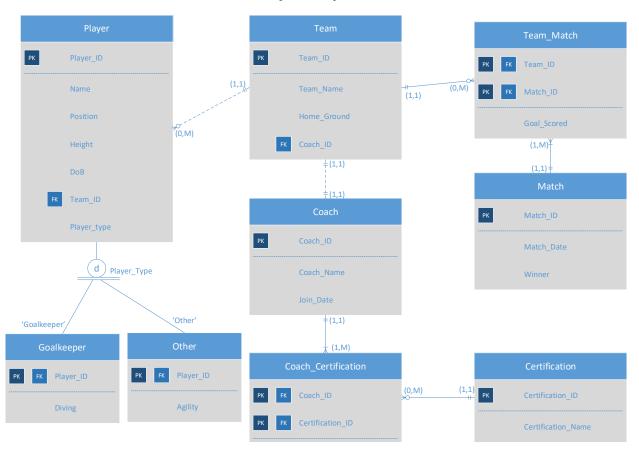
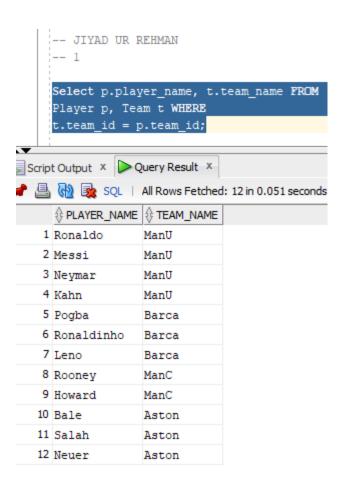
Project Report 4

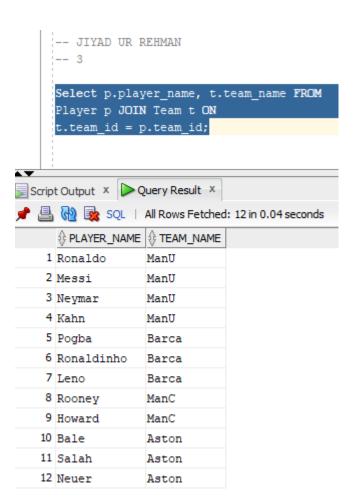




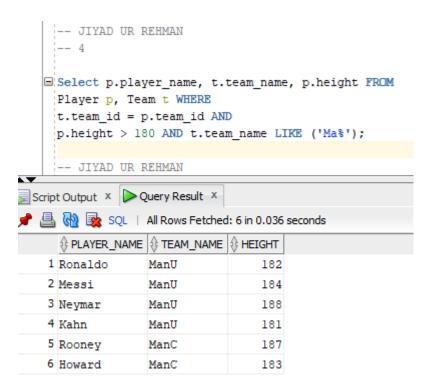
The query extracts the player names and the team name for which these player plays.



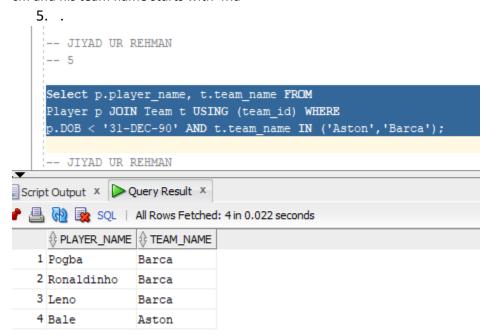
The query extracts the player names and the team name for which these player plays through JOIN...USING



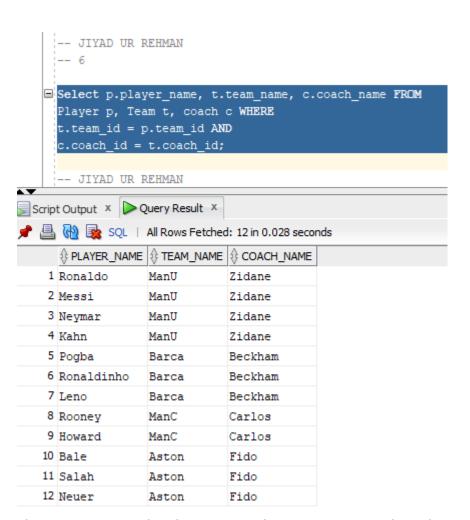
The query extracts the player names and the team name for which these player plays through JOIN...ON



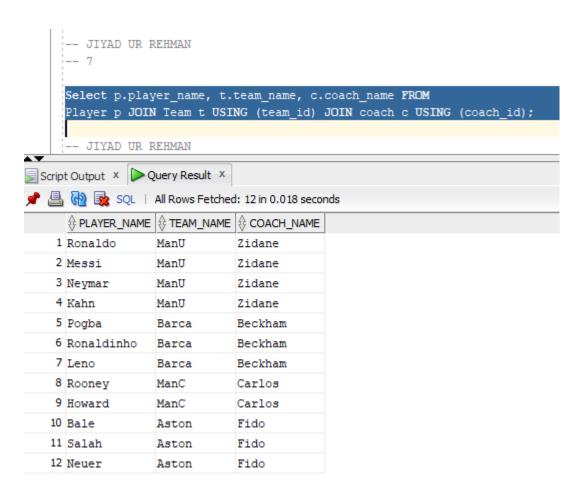
The query extracts player name, team name, and height of the player whose height is greater than 180 cm and his team name starts with 'Ma'



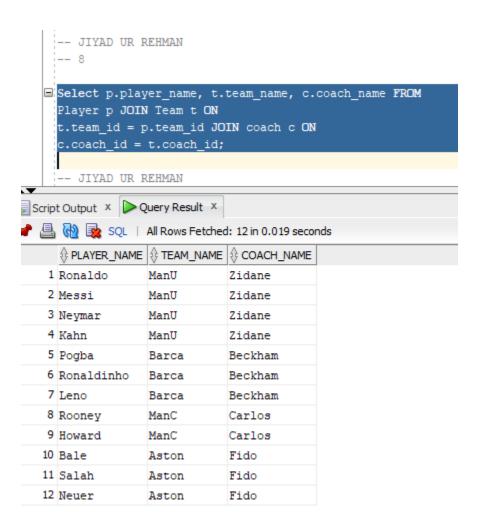
The query extracts player name and their team names of all the players who were born before 31-Dec-90 and are either playing for Barca or Aston.



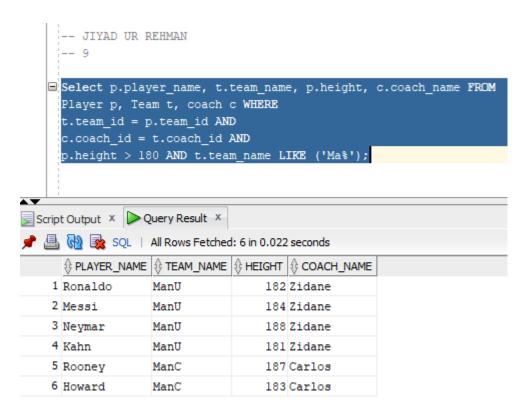
The query extracts the player names their team name and coach name of that teams.



The query extracts the player names their team name and coach name of that teams through JOIN...USING.



The query extracts the player names their team name and coach name of that teams through JOIN...ON.



The query extract the player name their team name, and the coach of the team for the players whose height is more than 180cm and their team name starts with 'Ma'.

10..

```
-- JIYAD UR REHMAN
    -- 10
   Select p.player_name, t.team_name, c.coach_name, g.diving FROM
    Player p, Team t, coach c, goalkeeper g WHERE
    t.team id = p.team id AND
    c.coach id = t.coach id AND
     g.player id = p.player id AND
     t.team_name LIKE ('Ma%') AND
     g.diving > 95;
     -- DROP Commands
Script Output X Query Result X
  All Rows Fetched: 1 in 0.024 seconds
     PLAYER_NAME | TEAM_NAME | COACH_NAME |

⊕ DIVING

   1 Howard
                  ManC
                              Carlos
                                                98
```

The query extracts the names of the goalkeeper, his team name, his coach name and diving capability whose diving capability is more than 95 and his team name starts with 'Ma'

CODE

```
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_UK 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);
*********
-- INSERT COMMANDS
*********
-- Coach
INSERT INTO COACH VALUES (1000, 'Zidane', '02-Jan-2019');
INSERT INTO COACH VALUES (1001, 'Beckham', '20-Feb-2019');
INSERT INTO COACH VALUES (1002, 'Carlos', '02-May-2019');
INSERT INTO COACH VALUES (1003, 'Fido', '18-Jun-2019');
-- Team
INSERT INTO TEAM VALUES (2000, 'ManU', 'Green', 1000);
```

```
INSERT INTO TEAM VALUES (2001, 'Barca', 'Blue', 1001);
INSERT INTO TEAM VALUES (2002, 'ManC', 'Red', 1002);
INSERT INTO TEAM VALUES (2003, 'Aston', 'White', 1003);
-- Match
INSERT INTO MATCH VALUES (3000, 'ManU', '01-Oct-2019');
INSERT INTO MATCH VALUES (3001, 'Barca', '02-Oct-2019');
-- Certification
INSERT INTO CERTIFICATION VALUES (4000, 'Attack');
INSERT INTO CERTIFICATION VALUES (4001, 'Defend');
INSERT INTO CERTIFICATION VALUES (4002, 'Mid');
-- Team Match
INSERT INTO TEAM_MATCH VALUES (2000, 3000, 2);
INSERT INTO TEAM MATCH VALUES (2003, 3000, 1);
INSERT INTO TEAM_MATCH VALUES (2001, 3001, 1);
INSERT INTO TEAM_MATCH VALUES (2002, 3001, 0);
-- Coach Certification
INSERT INTO COACH CERTIFICATION VALUES (1000, 4000);
INSERT INTO COACH_CERTIFICATION VALUES (1000, 4001);
INSERT INTO COACH CERTIFICATION VALUES (1000, 4002);
INSERT INTO COACH CERTIFICATION VALUES (1001, 4002);
```

```
INSERT INTO COACH CERTIFICATION VALUES (1002, 4001);
INSERT INTO COACH CERTIFICATION VALUES (1003, 4001);
INSERT INTO COACH_CERTIFICATION VALUES (1003, 4002);
-- Player
             T1 2000
INSERT INTO PLAYER VALUES (0001, 'Ronaldo', 'CF', 182, '02-Jan-1982', 2000, 'Other');
INSERT INTO PLAYER VALUES (0002, 'Messi', 'LF', 184, '03-Feb-1982', 2000, 'Other');
INSERT INTO PLAYER VALUES (0003, 'Neymar', 'RM', 188, '22-Mar-1984', 2000, 'Other');
INSERT INTO PLAYER VALUES (0004, 'Kahn', 'GK', 181, '22-Jul-1984', 2000, 'Goalkeeper');
             T2 2001
INSERT INTO PLAYER VALUES (0005, 'Pogba', 'LF', 183, '03-Feb-1982', 2001, 'Other');
INSERT INTO PLAYER VALUES (0006, 'Ronaldinho', 'LM', 185, '22-Mar-1984', 2001, 'Other');
INSERT INTO PLAYER VALUES (0007, 'Leno', 'GK', 181, '22-Mar-1988', 2001, 'Goalkeeper');
             T3 2002
INSERT INTO PLAYER VALUES (0008, 'Rooney', 'LM', 187, '01-Jan-1980', 2002, 'Other');
INSERT INTO PLAYER VALUES (0009, 'Howard', 'GK', 183, '20-Dec-1990', 2002, 'Goalkeeper');
             T4 2003
INSERT INTO PLAYER VALUES (0010, 'Bale', 'CF', 184, '21-Oct-1988', 2003, 'Other');
INSERT INTO PLAYER VALUES (0011, 'Salah', 'LM', 189, '17-Nov-1994', 2003, 'Other');
INSERT INTO PLAYER VALUES (0012, 'Neuer', 'GK', 183, '29-Sep-1995', 2003, 'Goalkeeper');
-- Goalkeeper
```

```
INSERT INTO GOALKEEPER VALUES (0004, 95);
INSERT INTO GOALKEEPER VALUES (0007, 92);
INSERT INTO GOALKEEPER VALUES (0009, 98);
INSERT INTO GOALKEEPER VALUES (0012, 88);
-- Other
INSERT INTO OTHER VALUES (0001, 90);
INSERT INTO OTHER VALUES (0002, 91);
INSERT INTO OTHER VALUES (0003, 92);
INSERT INTO OTHER VALUES (0005, 98);
INSERT INTO OTHER VALUES (0006, 85);
INSERT INTO OTHER VALUES (0008, 82);
INSERT INTO OTHER VALUES (0010, 96);
INSERT INTO OTHER VALUES (0011, 96);
-- SELECT COMMANDS
-- JIYAD UR REHMAN
SELECT * FROM player;
-- JIYAD UR REHMAN
SELECT * FROM certification;
-- JIYAD UR REHMAN
SELECT * FROM coach;
-- JIYAD UR REHMAN
SELECT * FROM coach_certification;
```

```
-- JIYAD UR REHMAN
SELECT * FROM goalkeeper;
-- JIYAD UR REHMAN
SELECT * FROM match;
-- JIYAD UR REHMAN
SELECT * FROM other;
-- JIYAD UR REHMAN
SELECT * FROM team;
-- JIYAD UR REHMAN
SELECT * FROM team match;
-- Assignment 10 (JOINS)
-- JIYAD UR REHMAN
-- 1
Select p.player_name, t.team_name FROM
Player p, Team t WHERE
t.team_id = p.team_id;
-- JIYAD UR REHMAN
-- 2
Select p.player_name, t.team_name FROM
Player p JOIN Team t USING (team_id);
-- JIYAD UR REHMAN
-- 3
Select p.player_name, t.team_name FROM
Player p JOIN Team t ON
t.team_id = p.team_id;
-- JIYAD UR REHMAN
```

-- 4

```
Select p.player name, t.team name, p.height FROM
Player p, Team t WHERE
t.team id = p.team id AND
p.height > 180 AND t.team_name LIKE ('Ma%');
-- JIYAD UR REHMAN
-- 5
Select p.player name, t.team name FROM
Player p JOIN Team t USING (team_id) WHERE
p.DOB < '31-DEC-90' AND t.team_name IN ('Aston','Barca');</pre>
-- JIYAD UR REHMAN
-- 6
Select p.player_name, t.team_name, c.coach_name FROM
Player p, Team t, coach c WHERE
t.team id = p.team id AND
c.coach id = t.coach id;
-- JIYAD UR REHMAN
-- 7
Select p.player_name, t.team_name, c.coach_name FROM
Player p JOIN Team t USING (team id) JOIN coach c USING (coach id);
-- JIYAD UR REHMAN
-- 8
Select p.player_name, t.team_name, c.coach_name FROM
Player p JOIN Team t ON
t.team id = p.team id JOIN coach c ON
c.coach id = t.coach id;
-- JIYAD UR REHMAN
-- 9
Select p.player name, t.team name, p.height, c.coach name FROM
Player p, Team t, coach c WHERE
t.team id = p.team id AND
```

```
c.coach id = t.coach id AND
p.height > 180 AND t.team name LIKE ('Ma%');
-- JIYAD UR REHMAN
-- 10
Select p.player name, t.team name, c.coach name, g.diving FROM
Player p, Team t, coach c, goalkeeper g WHERE
t.team id = p.team id AND
c.coach_id = t.coach_id AND
g.player_id = p.player_id AND
t.team_name LIKE ('Ma%') AND
g.diving > 95;
-- DROP Commands
DROP TABLE PLAYER CASCADE CONSTRAINTS;
DROP TABLE TEAM CASCADE CONSTRAINTS;
DROP TABLE COACH CASCADE CONSTRAINTS;
DROP TABLE TEAM MATCH CASCADE CONSTRAINTS;
DROP TABLE MATCH CASCADE CONSTRAINTS;
```

DROP TABLE COACH_CERTIFICATION CASCADE CONSTRAINTS;

DROP TABLE CERTIFICATION CASCADE CONSTRAINTS; DROP TABLE GOALKEEPER CASCADE CONSTRAINTS;

DROP TABLE OTHER CASCADE CONSTRAINTS;