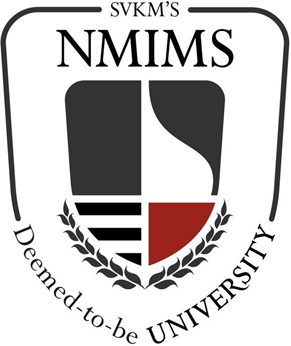
DBMS Project  
Football

Premiere League



**Guided by: -**

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Our Team: -

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Vrishin Jain (B235)

Vansh Mistry (B223)

Meet Desai (B238)

Introduction

League databases are required to keep track of the matches happened which help in the analysis done by the clubs for their new season or next matches. It also helps the club to understand where they stand in the league and what needs to be done to compete further in the seasons to come. Analysis of player can also be done to see their value for the club, whether to buy, sell or renew their contracts. If a player performs well in the league, then he might be approached by different clubs while his existing club tries hard to keep the player. The opposite happens when he does not perform well in the league. This database is also beneficial to the clubs to see and analyse what happened the last time they went up against a certain team and change or keep their original tactics that was used against their rivals last time out. This also helps them in the Champions League where they can see similar tactical clubs and predict the way they will play so they could easily win their games.

Tables Used in the Database

Teams –

ID number

PK Name varchar2()

AK Home\_Stadium varchar2()

Players –

Name varchar2(30)

PK Player\_Number number

DOB date

Position varchar2(20)

Nationality varchar2(20)

FK Team varchar2(3)

FK references Team(Name)

Stats –

PK player\_number number

name varchar2(30)

goals number

assists number

appearances number

yellow\_cards number

red\_cards number

FK Team varchar2(30)

FK references Teams(Name)

Referees-

PK ID number

AK Name varchar2(30)

Matches number

Red\_Cards number

Yellow\_Cards numer

Fixtures –

FK1 Home varchar2(30)

FK2 Away varchar2(30)

Home\_Score number

Away\_Score number

FK3 Home\_Statdum varchar2(30)

Matchday number

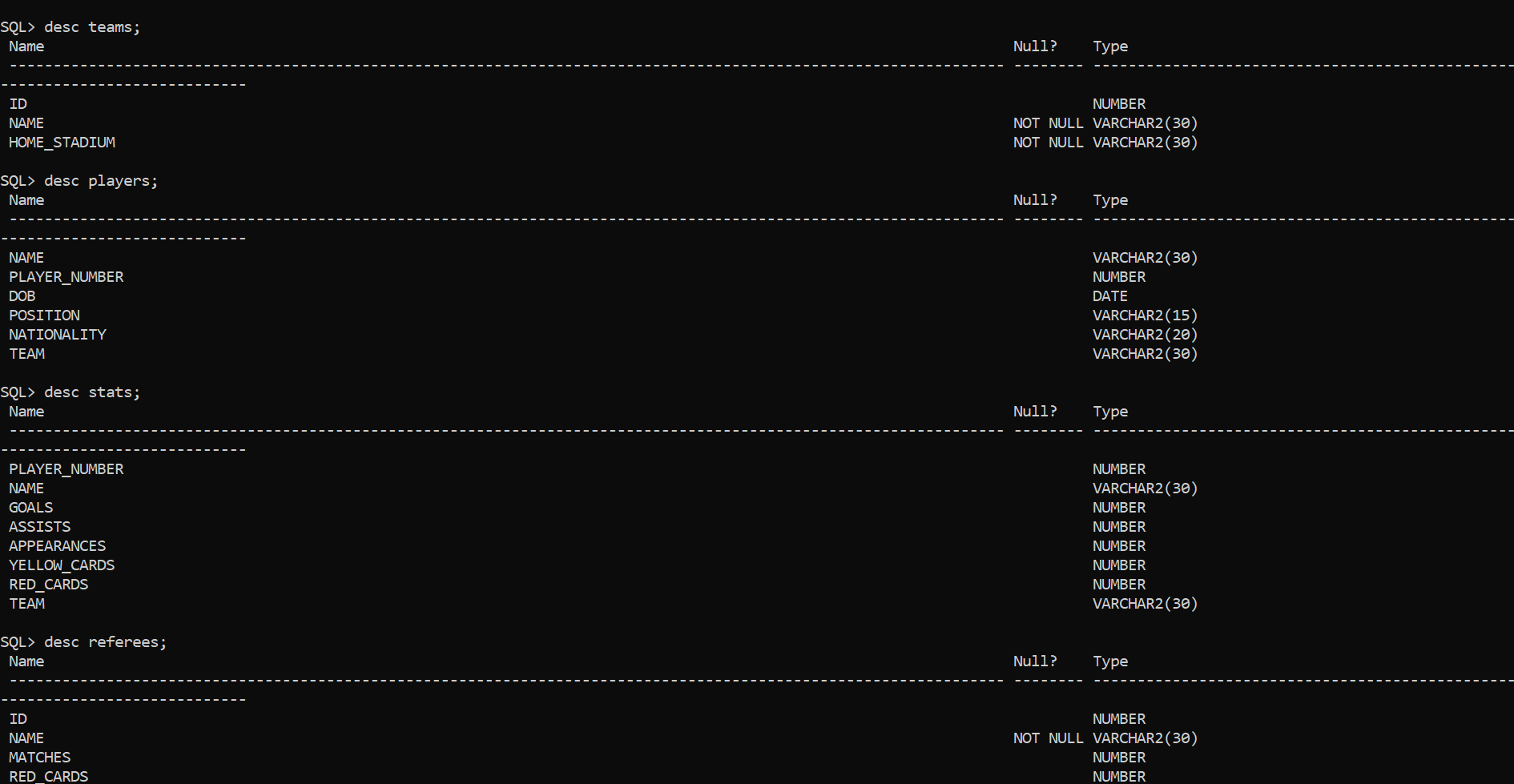
FK4 Referee varchar2(30)

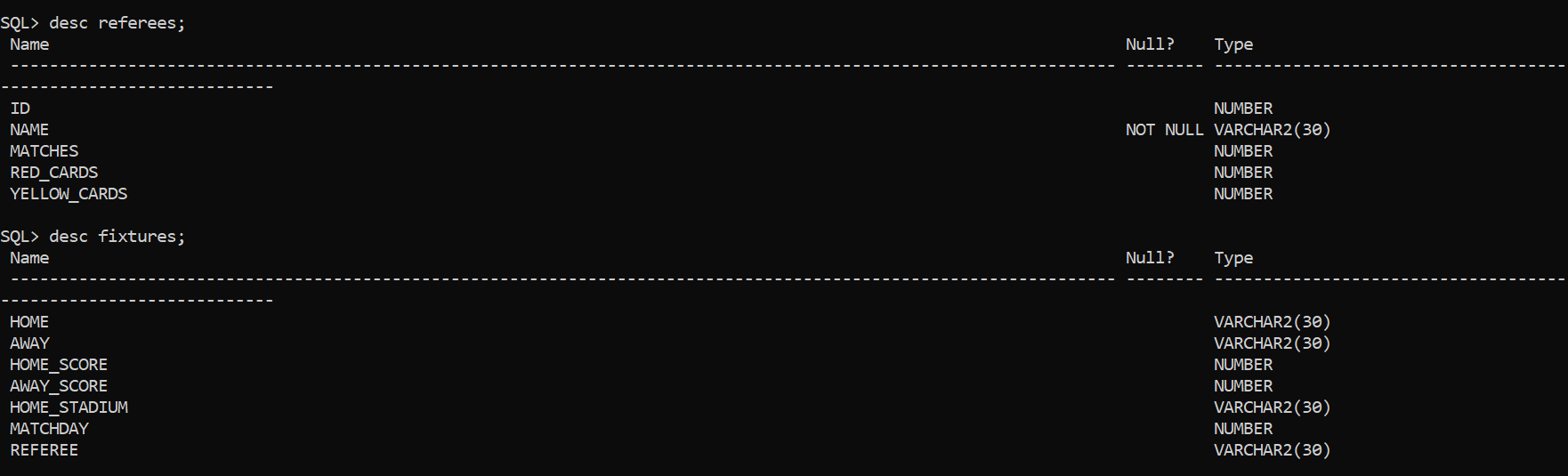
FK1 references Teams(Name)

FK2 references Teams(Name)

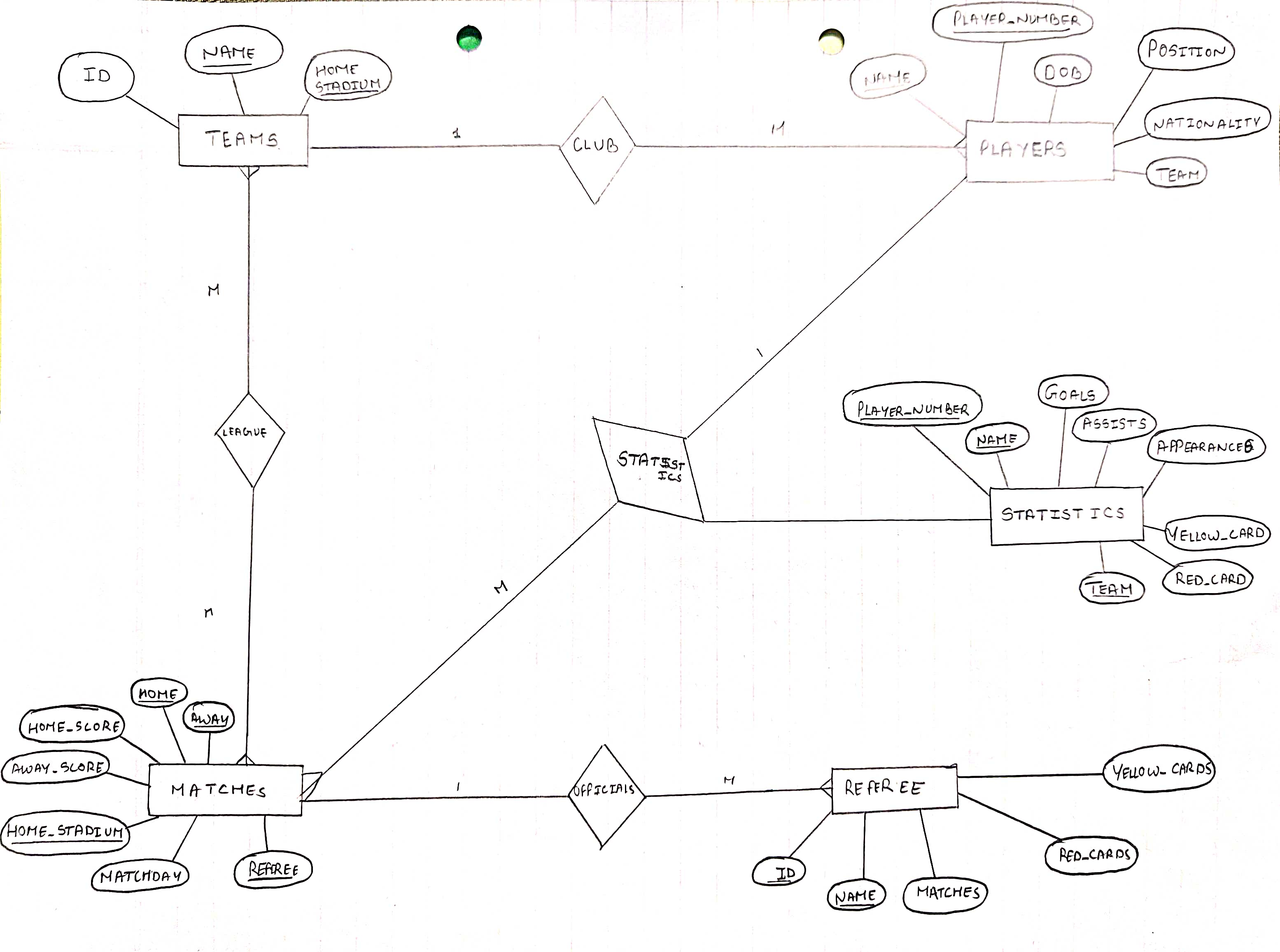
FK3 references Teams(Home\_Stadium)

FK references Referees(Name)



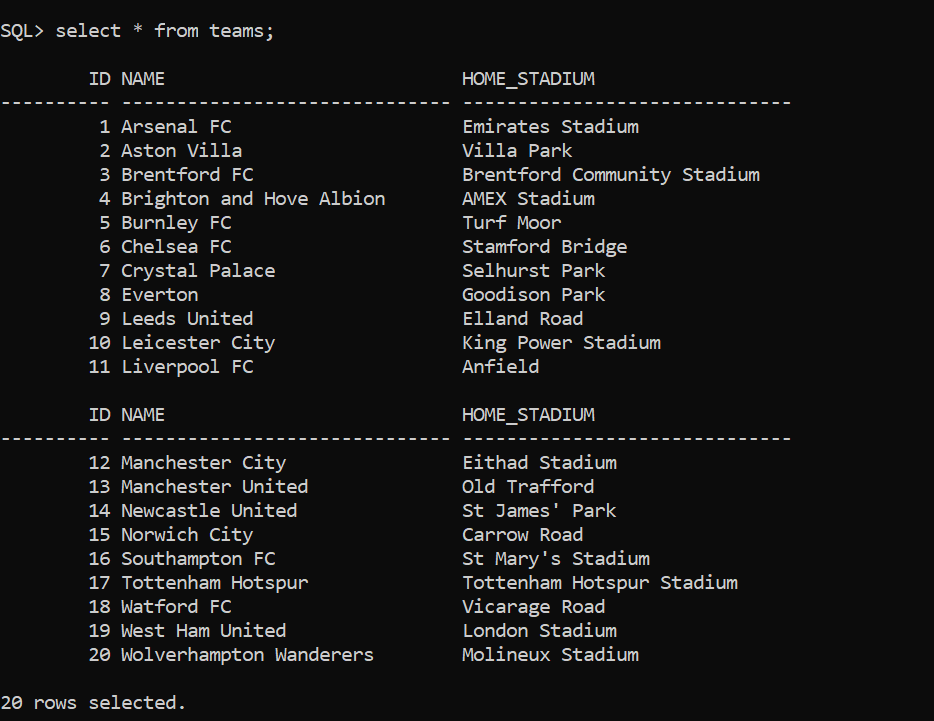


ER - Diagram

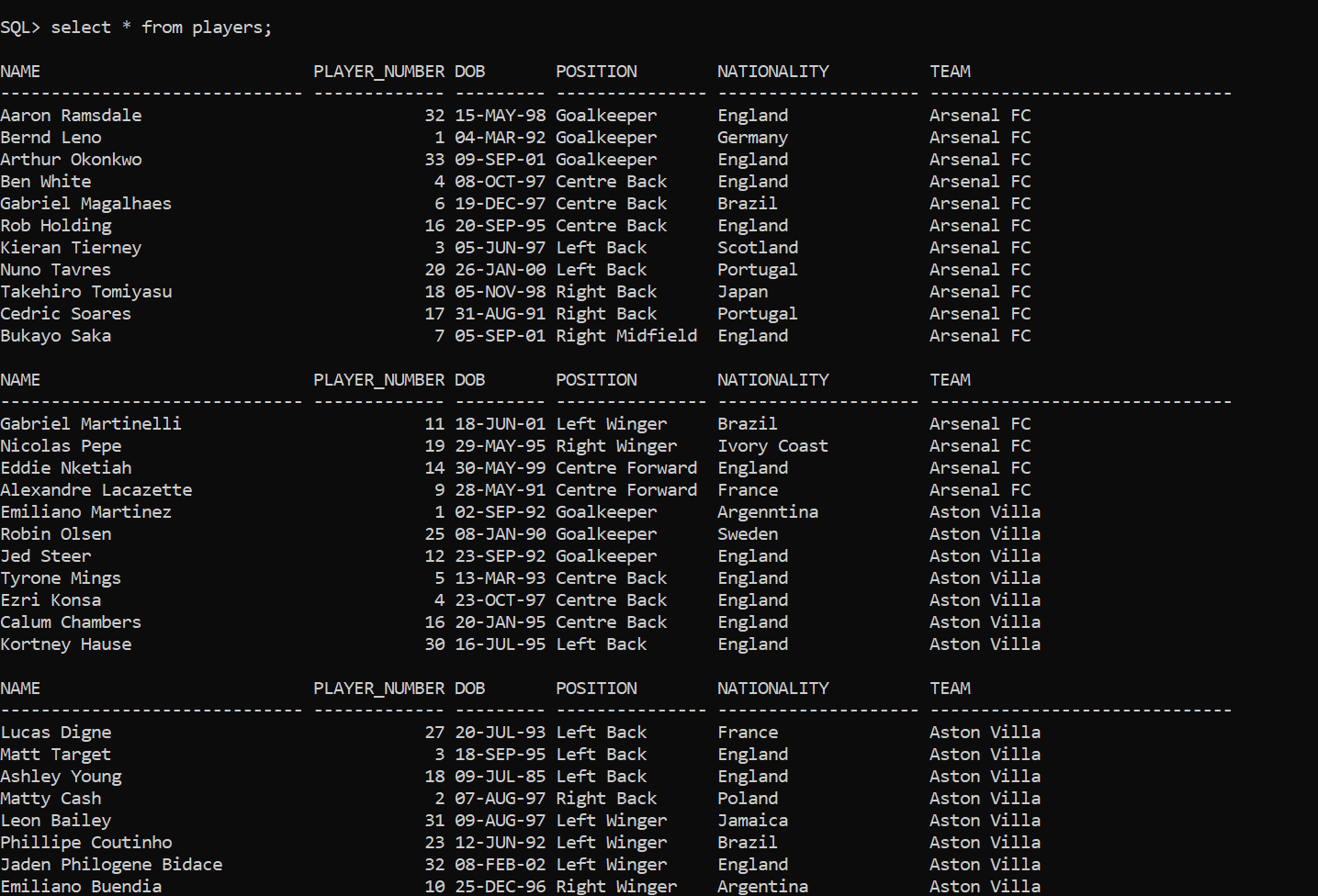


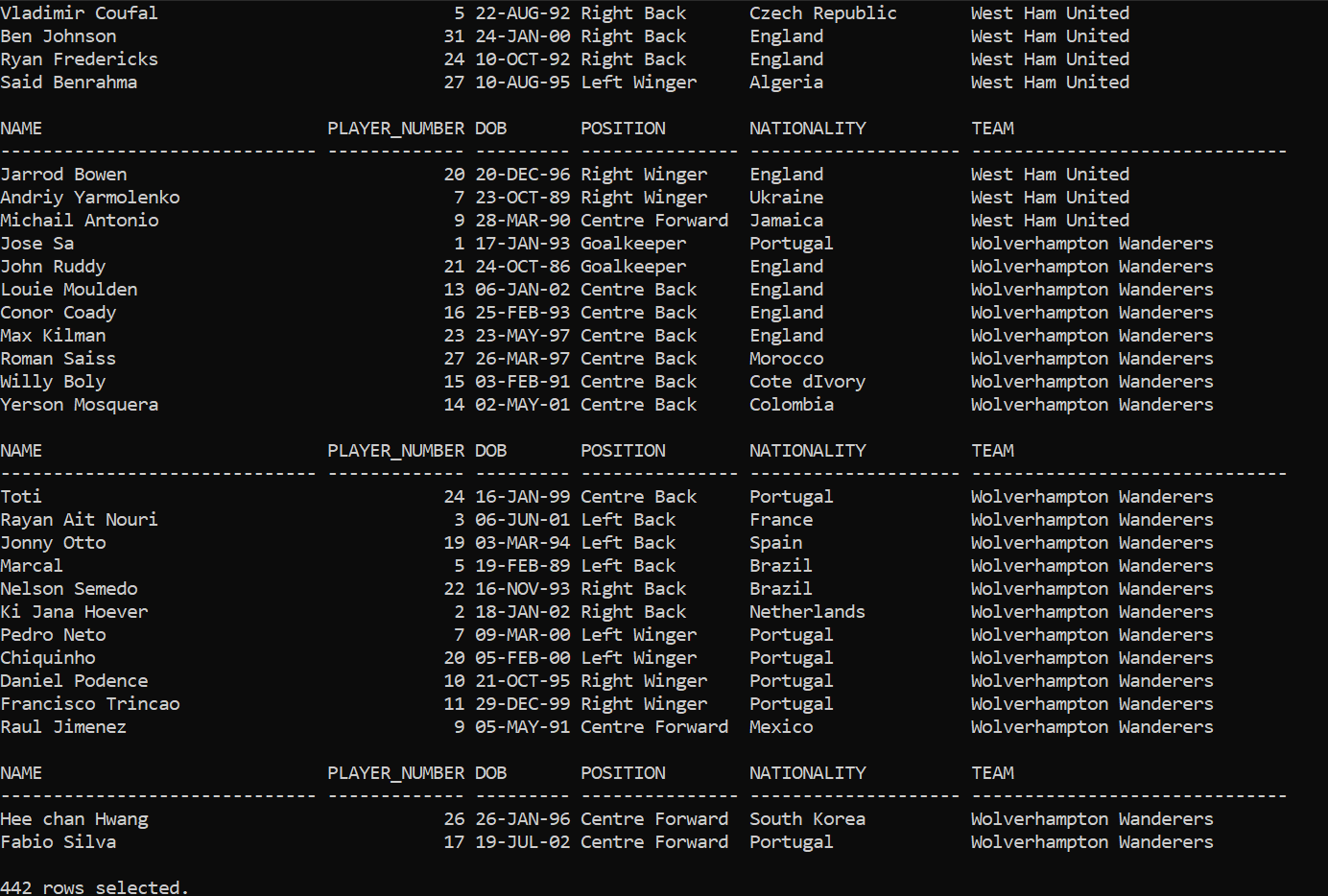
Data Entries

Teams -

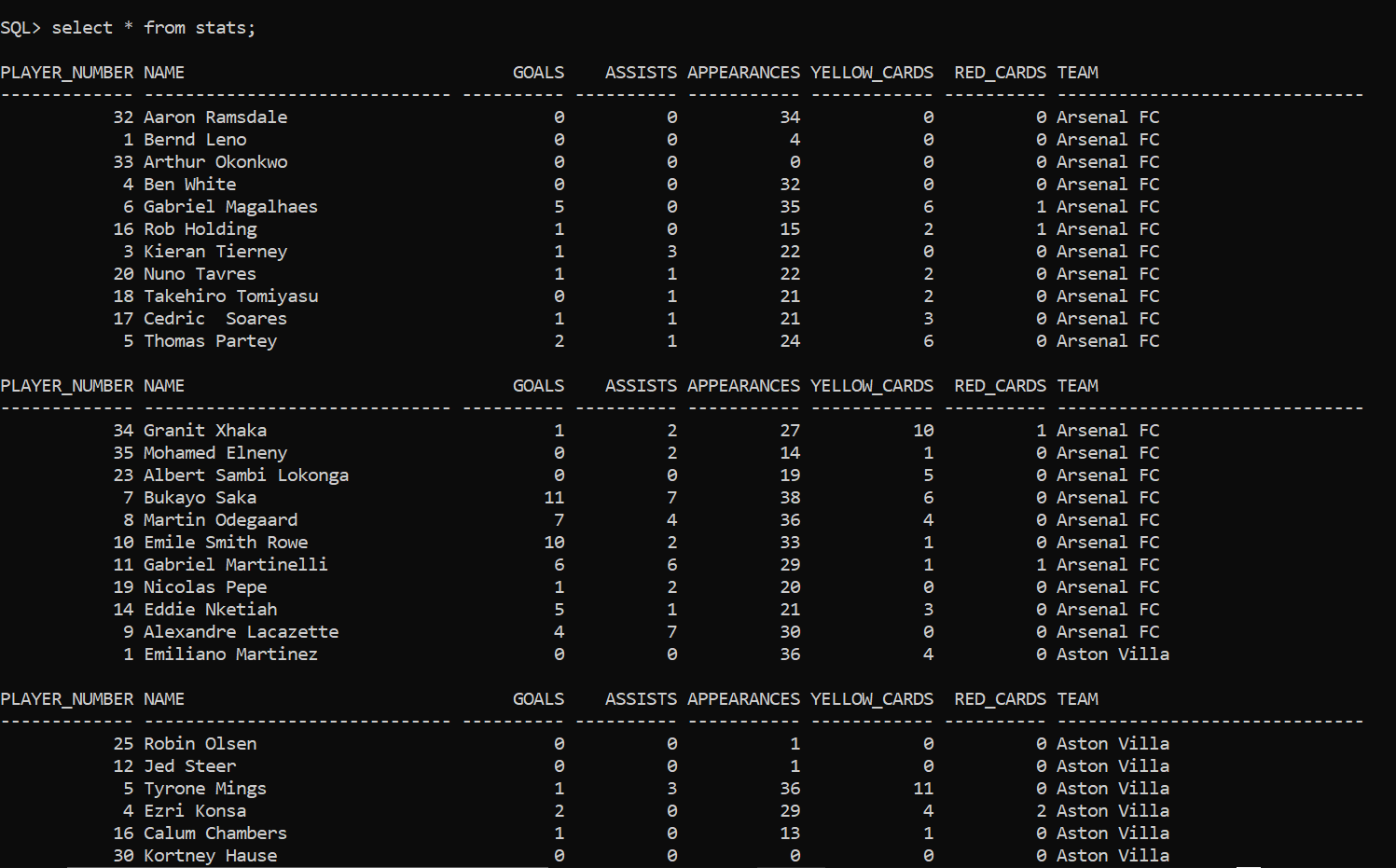


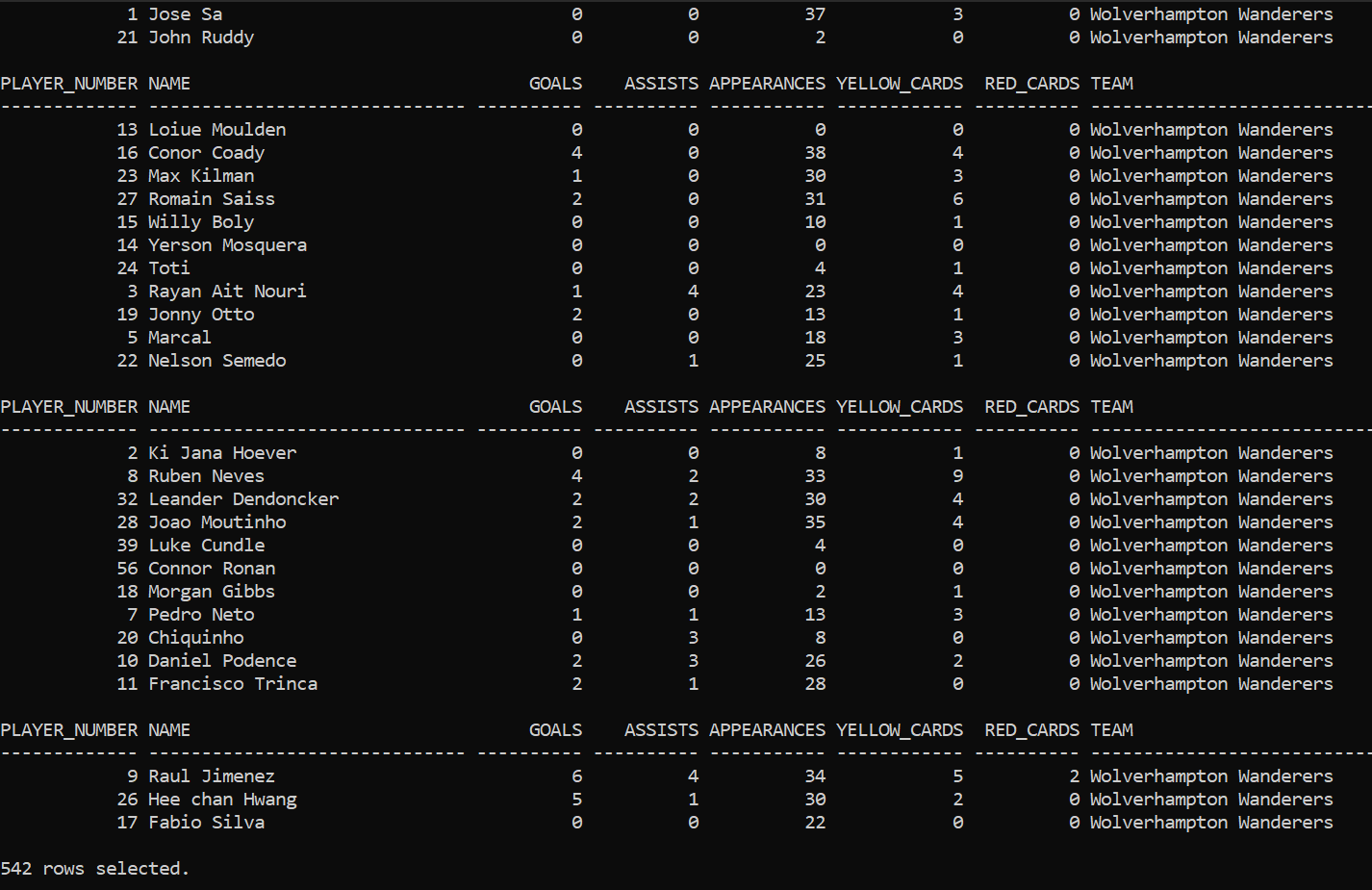
Players -



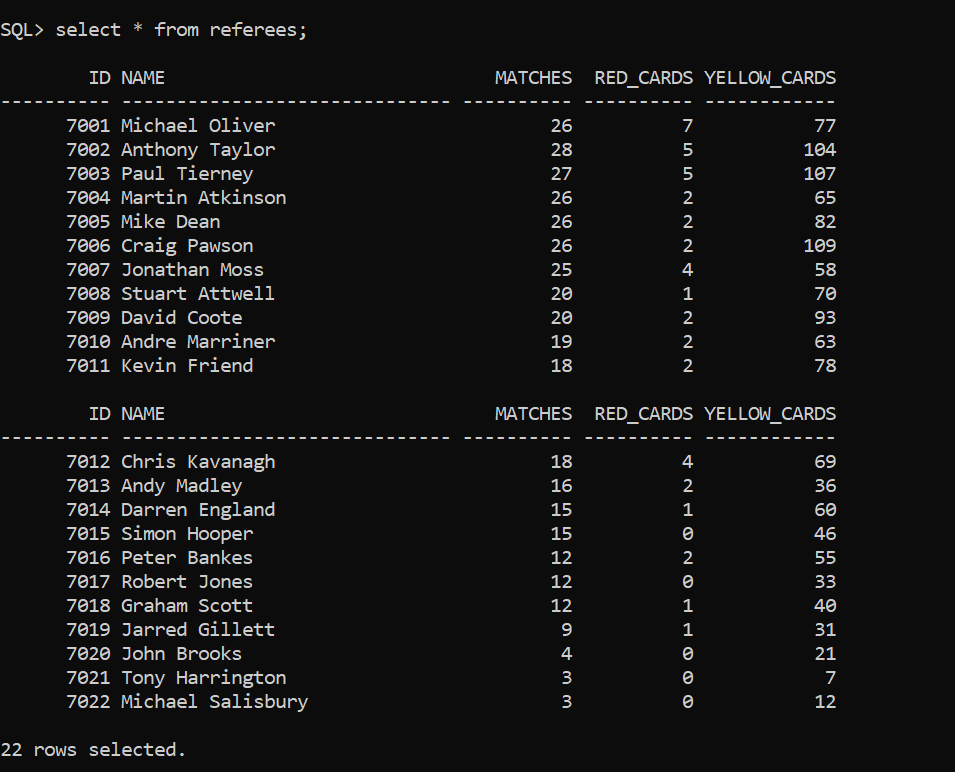


Stats –

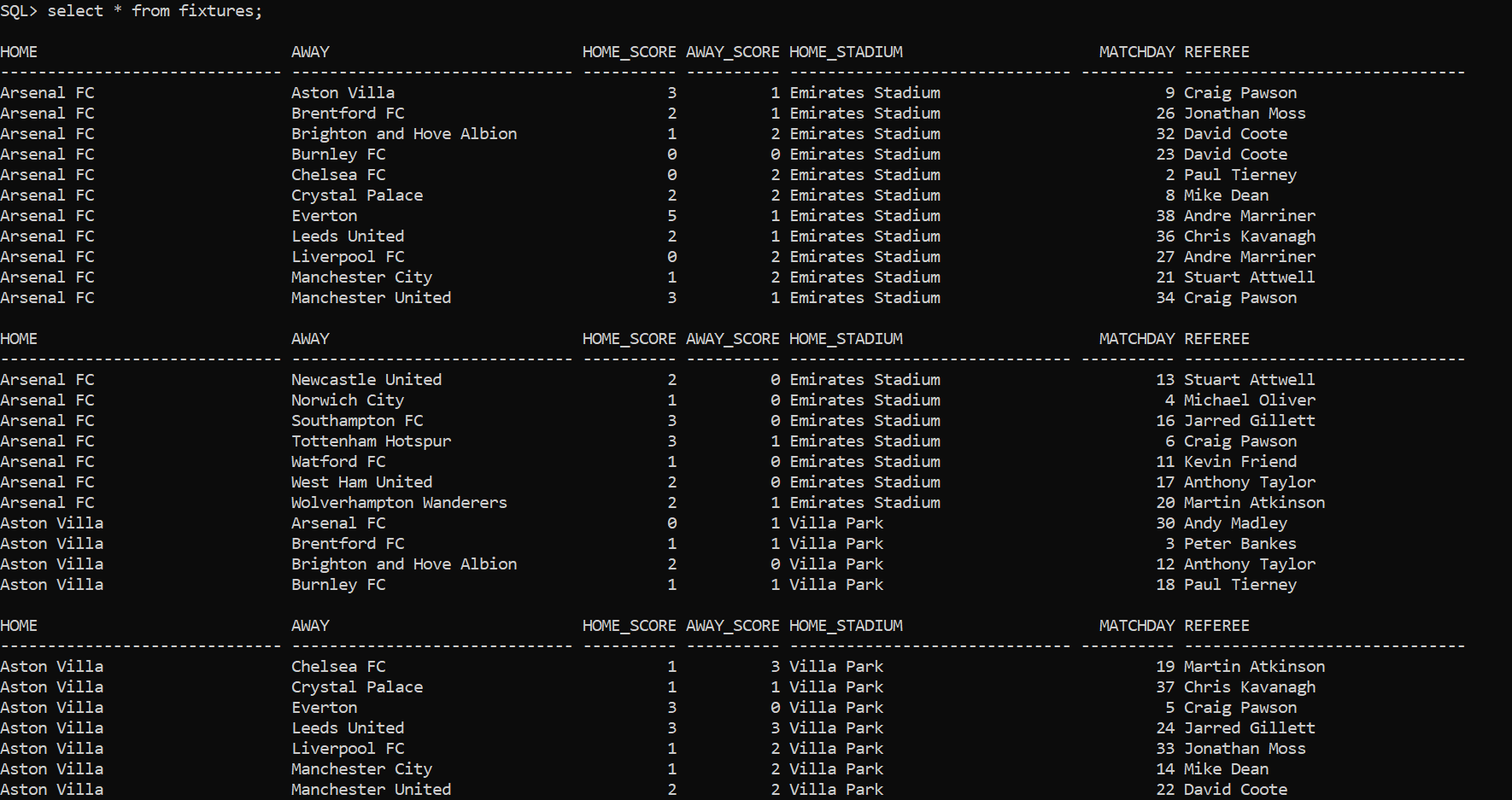


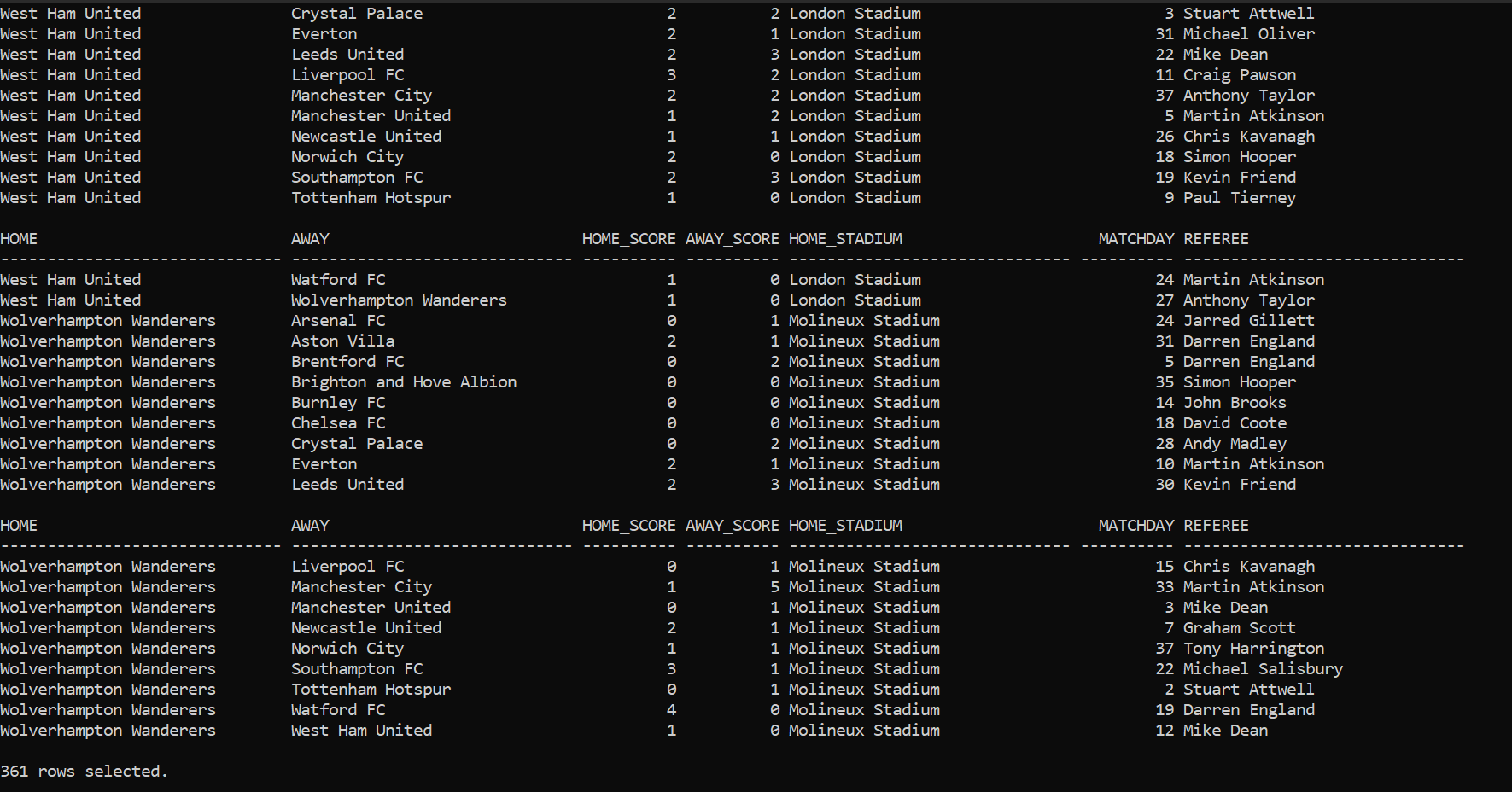


Referees –



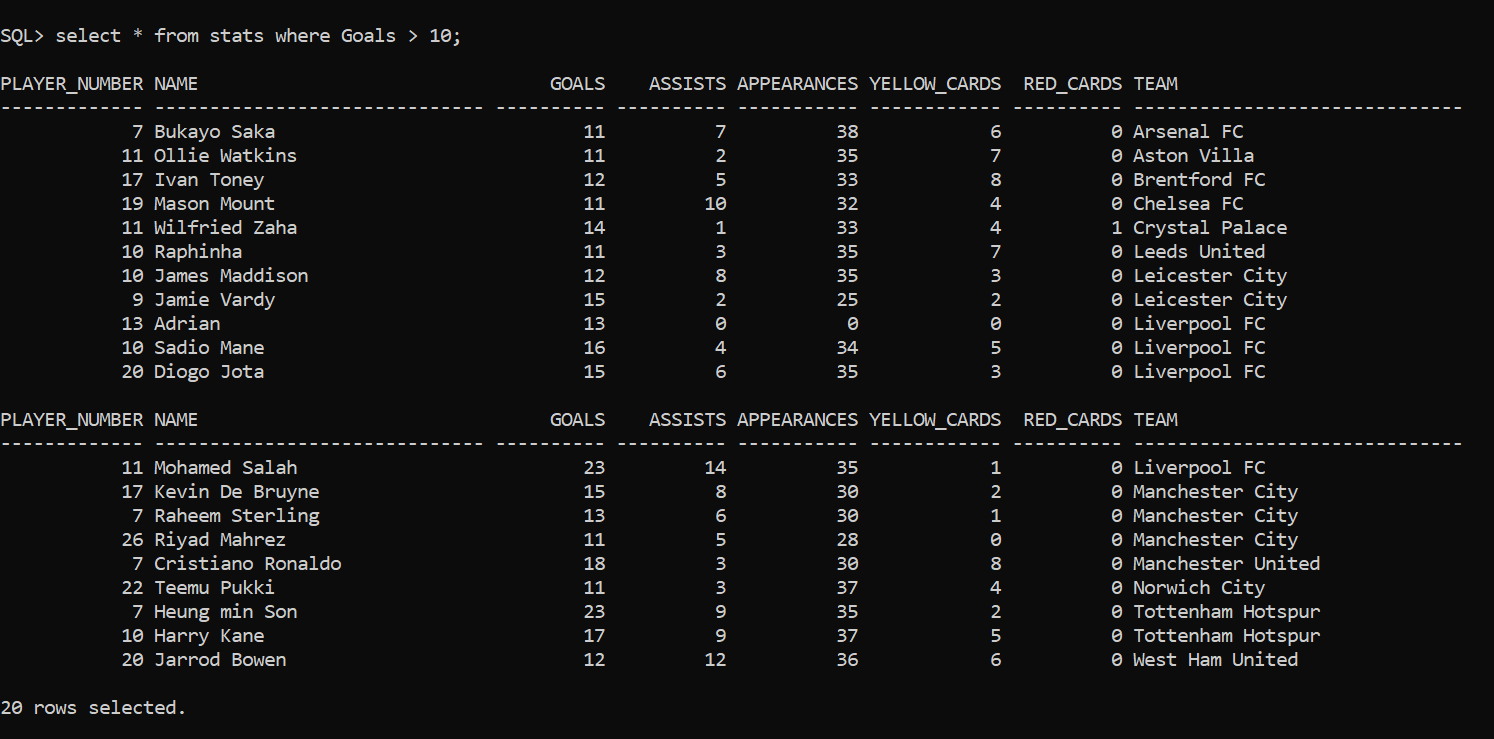
Fixtures –



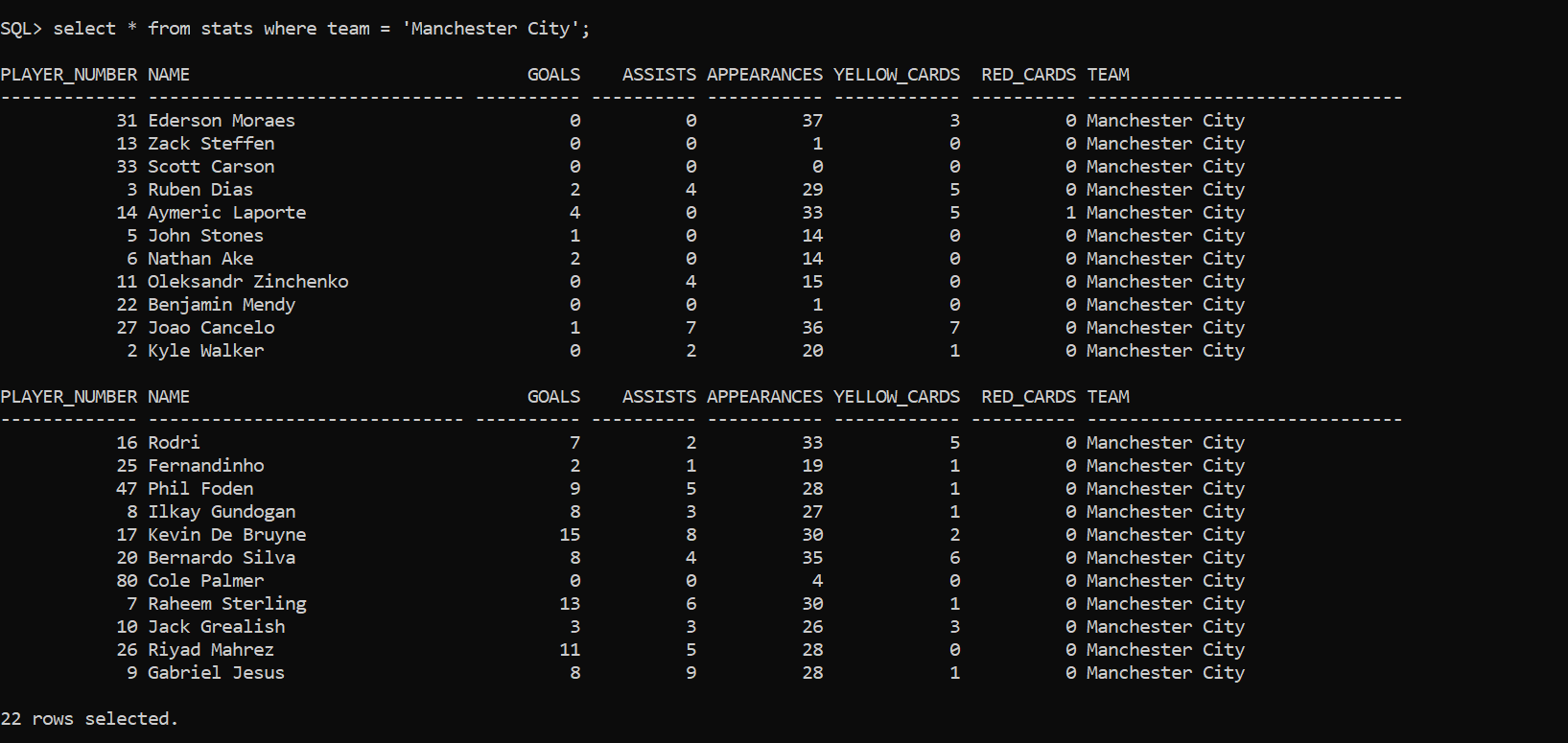


SQL Queries

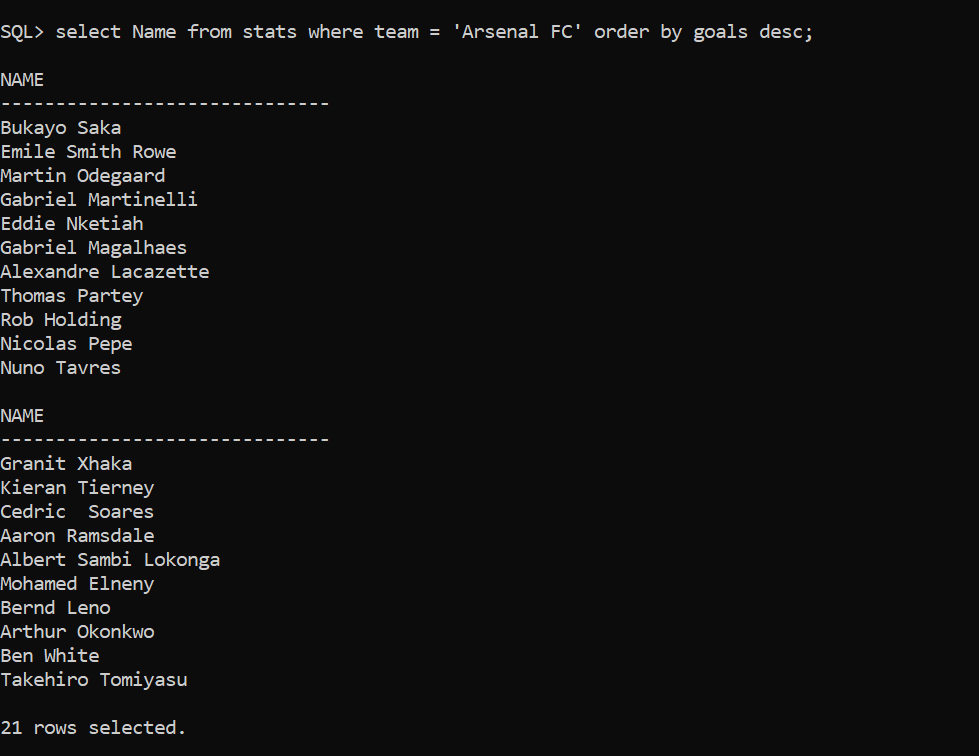
Q1. Players With Goals Greater Than 10



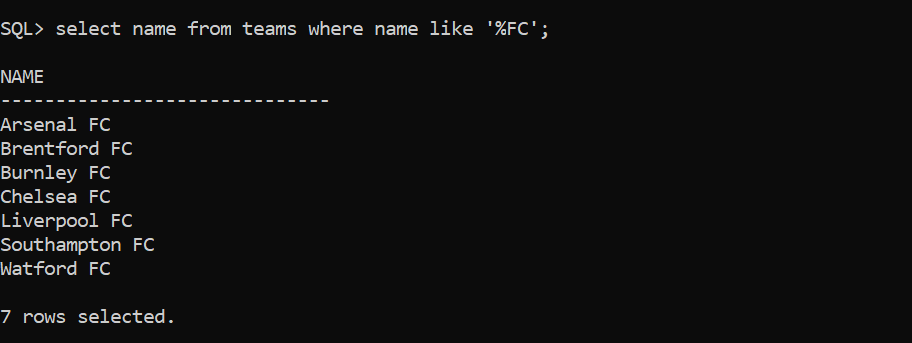
Q2. Stats Of All Players From A Manchester City



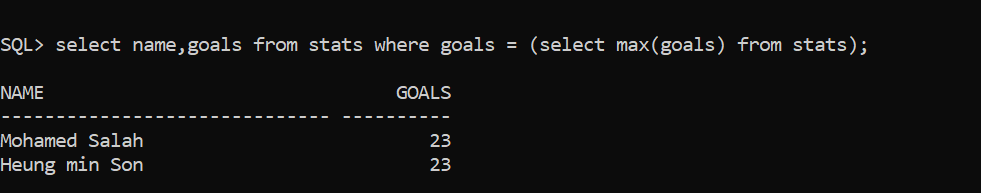
Q3. Players from Arsenal in Descending Order by Goals



Q4. Teams Ending With FC

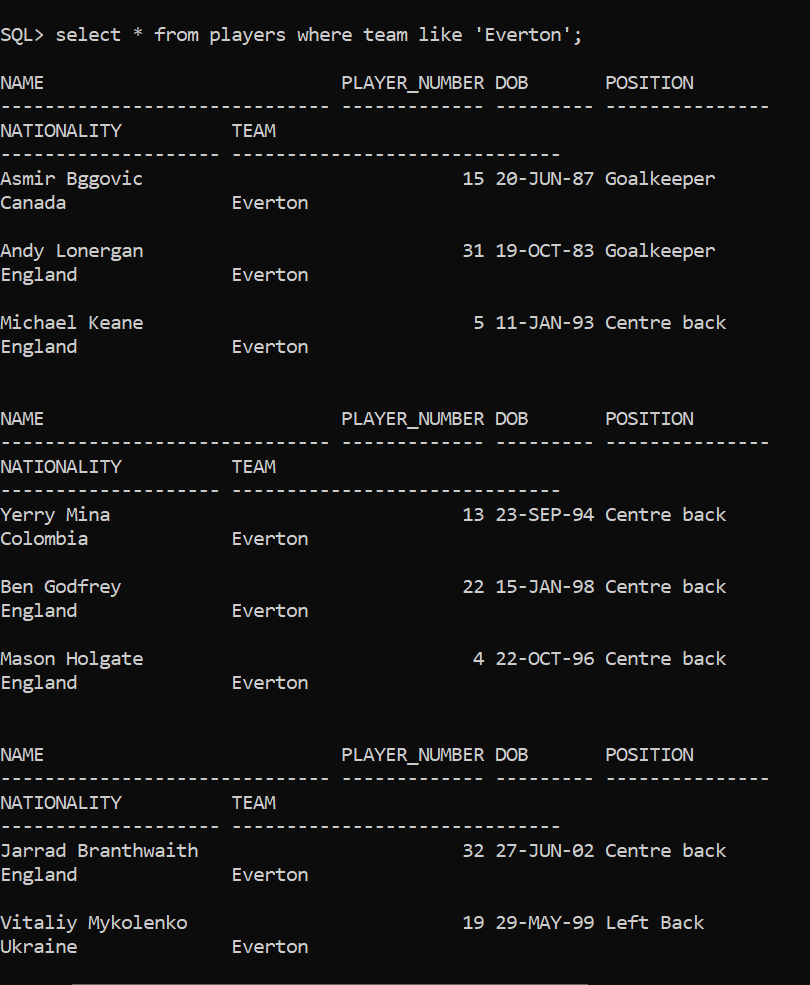


Q5. Show Highest Number Of Goals Scored By A Player In The League

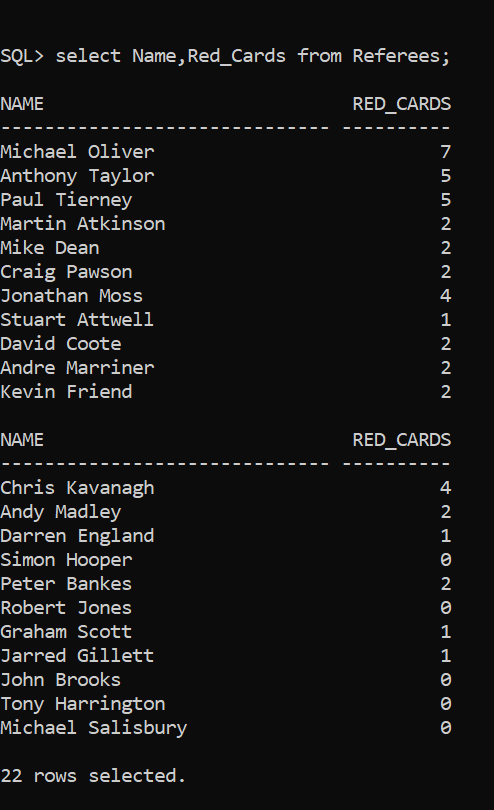


Relational Algebra Queries

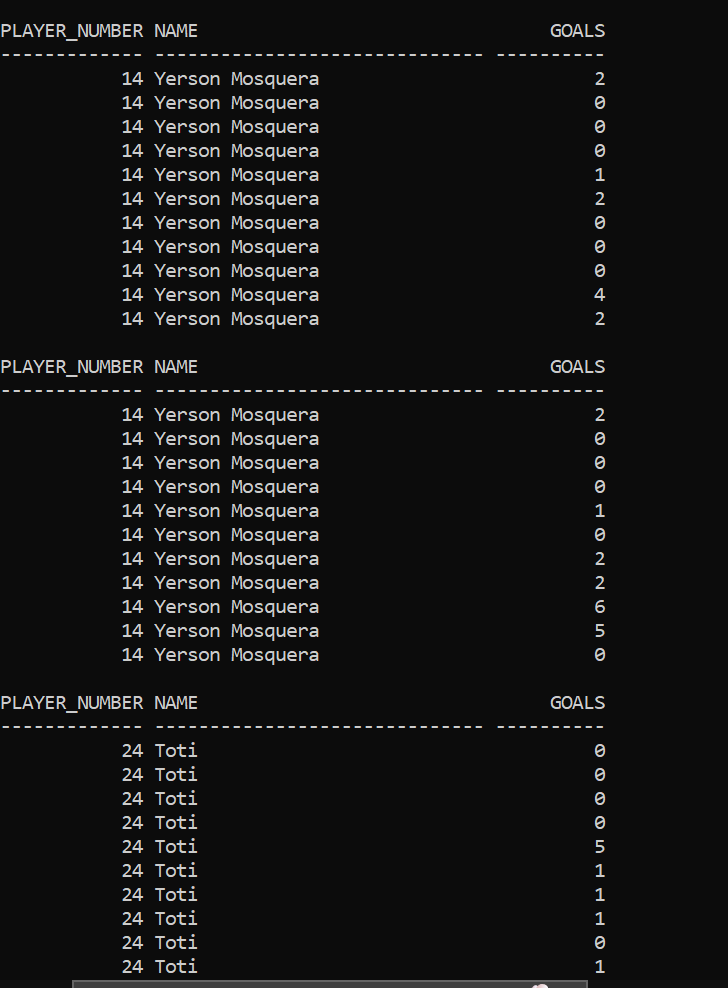
Q1. Show Name of players from a team name ‘Everton’

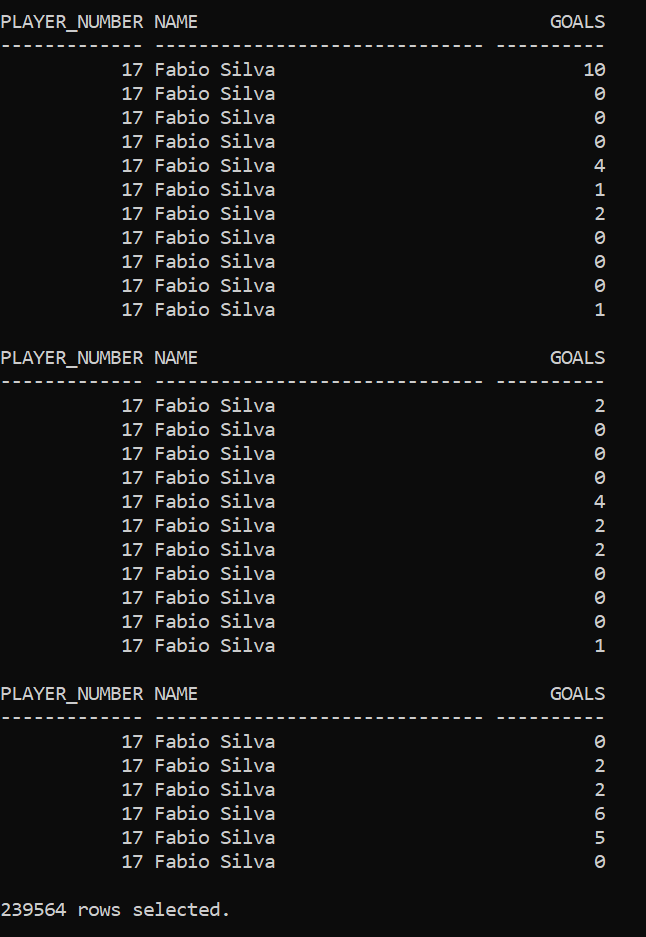


Q2. Show name of Referees with the number of red cards



Q3. Players with their Name, Player number and number of Goals they scored





References –

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<https://www.guru99.com/relational-algebra-dbms.html>

<https://www.w3schools.com/sql/default.asp>

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<https://stackoverflow.com/questions/10839856/using-sql-loader-in-oracle-to-import-csv-file>