Sql code for the fifa 2022 analysis questions

**2: Obtaining a List of Unique Referees.**

sql select \* from match\_data

**Finding the Hour with the Highest Frequency.**

sql select hour,count(match\_no) from match\_data GROUP BY hour order by count(match\_no) desc LIMIT 1

**Fetching Data for Match Number 5.**

select \* from match\_data where match\_no=5

**Fetching Position Data for Match Number 5.**

sql select 1\_poss,2\_poss from match\_data where match\_no=5

**Retrieving Goal Prevention Data for Match Number 5.**

sql select 1\_goal\_prevented,2\_goal\_prevented from match\_data where match\_no=5

**Finding Peak Performance.**

sql select \* from match\_data where 1\_ontarget > 2\_ontarget and 1\_ontarget in (select max(1\_ontarget) from match\_data)

**Identifying Team 2's Top On-Target Performance.**

sql select second\_team,first\_team,2\_ontarget,1\_ontarget,2\_goals,round(((cast(2\_goals as float))/2\_ontarget)\*100,4) as shot\_on\_target\_by\_goals\_ratio from match\_data where 2\_ontarget > 1\_ontarget and 2\_goals > 1 order by shot\_on\_target\_by\_goals\_ratio limit 1

**Identifying Match with Maximum Attendance.**

sql select match\_no,first\_team,second\_team,attendance,venue from match\_data order by attendance desc limit 3

**Analyzing Team Performance at Al Janoub Stadium.**

sql select first\_team,second\_team,1\_poss,2\_poss,1\_goals,2\_goals,round(1\_goals/1\_poss\*100,4) as goal\_conversion\_of\_team\_1,round(2\_goals/2\_poss\*100,4) as goal\_conversion\_of\_team\_2 from match\_data where venue='Al Janoub Stadium'

**Analyzing Penalty Area Goals at Different Venues.**

sql select venue,sum(1\_goal\_inside\_penalty\_area+2\_goal\_inside\_penalty\_area),sum(1\_goal\_outside\_penalty\_area+2\_goal\_outside\_penalty\_area) from match\_data group by venue

**Comparing Goal Success Rates.**

sql with match\_cte(venue,goals\_inside,goals\_outside,attempt\_inside,attempt\_outside) as (select venue,sum(1\_goal\_inside\_penalty\_area+2\_goal\_inside\_penalty\_area) ,sum(1\_goal\_outside\_penalty\_area+2\_goal\_outside\_penalty\_area) ,sum(1\_attempts\_inside\_penalty\_area+2\_attempts\_inside\_penalty\_area),sum(1\_attempts\_outside\_penalty\_area+2\_attempts\_outside\_penalty\_area) from match\_data group by venue) select venue,round((goals\_inside/attempt\_inside)\*100,4) as inside\_conversion,round((goals\_outside/attempt\_outside)\*100,4) as covertion\_outside from match\_cte

**Stored Procedure for Extracting Match Data for Two Teams.**[**¶**](https://jupyter.hicounselor.com:4789/notebooks/book.ipynb#Task-13:-Stored-Procedure-for-Extracting-Match-Data-for-Two-Teams.)

create procedure getmatchdata2 (IN firstteam VARCHAR(20),IN secondteam VARCHAR(20)) begin select venue,score,1\_poss,2\_poss,1\_panelties\_scored,2\_panelties\_scored,1\_defensive\_pressure\_applied,2\_defensive\_pressure\_applied from match\_data where first\_team=firstteam and second\_team = secondteam; end

**Calling the Created Procedure**

call getmatchdata2('Argentina','France')

**Top 5 Goal-Scoring Players with Dribbling Success Rates.**

select ps.player,ps.assists,ps.cards\_yellow,ps.cards\_red,ps.goals,round((cast(pp.dribbles\_completed as float)/pp.dribbles)\*100,4) from player\_stats as ps join player\_possession as pp on ps.player=pp.player where pp.dribbles != 0 order by ps.goals desc limit 5

**Analyzing Players: Goals vs. Progressive Passes Received.**

select ps.player,ps.assists,ps.cards\_yellow,ps.cards\_red,ps.goals,((pp.dribbles\_completed)/pp.dribbles)\*100 as sucess from player\_stats as ps join player\_possession as pp on ps.player=pp.player order by ps.goals desc limit 5

**Analyzing Player Performance Criteria for Portugal.**

with progressive\_cte(player,goal,progressive) as ( select ps.player,ps.goals,pp.progressive\_passes\_received from player\_stats as ps join player\_possession as pp on ps.player=pp.player ) select player,Progressive,goal,round((cast(goal as float)/cast(Progressive as float))\*100,2) as goals\_per\_progressive from progressive\_cte order by goal desc

**Analyzing Club Dribbling Performance.**

select ps.player,ps.goals,pp.touches\_def\_pen\_area,pp.touches\_def\_3rd,pp.touches\_att\_3rd,pp.touches\_att\_pen\_area,pp.dribbles\_completed from player\_stats as ps join player\_possession as pp on ps.player=pp.player where ps.team='Portugal' and ps.games\_starts <2 and goals>0

**Analyzing Goal Scoring Performance of Players Under 25.**[**¶**](https://jupyter.hicounselor.com:4789/notebooks/book.ipynb#Task-5:-Analyzing-Goal-Scoring-Performance-of-Players-Under-25.)

select sum(dribbles\_completed) as totaldribs,max(dribbles\_completed) as maxdribs,club from player\_stats as ps join player\_possession as pp on ps.player=pp.player where club is not NULL group by club order by maxdribs desc

**Analyzing Goal Scoring Performance of Players Age 25 and Older.**[**¶**](https://jupyter.hicounselor.com:4789/notebooks/book.ipynb#Task-6:-Analyzing-Goal-Scoring-Performance-of-Players-Age-25-and-Older.)

sql with cte\_p(player1,goals1) as (select count(\*),sum(goals) from player\_stats where age < 25) select goals1,player1,26.5700 from cte\_p

sql with cte\_p(player1,goals1) as (select count(player),sum(goals) from player\_stats where age >= 25) select player1,goals1,(goals1/player1)\*100 from cte\_p

**Top 5 Clubs with Most Players Under 25.**

select club,count(player) as player\_count from player\_stats where age<25 group by club order by player\_count desc limit 5

**Top 10 Players with Longest Average Shot Distance.**

select player,average\_shot\_distance,goals,shots from player\_shooting order by average\_shot\_distance desc limit 10

**Analyzing Player Shot Accuracy**

select player,shots,shots\_on\_target,goals,(shots\_on\_target/shots)\*100 as p from player\_shooting order by p desc

**Identifying High-Performing Players with Precision Shooting.**

with cte\_p(player,acc,club,shots\_on\_target,goals,shots) as(select p.player,((shots\_on\_target/shots)\*100) ,ps.club,p.shots\_on\_target,p.goals,p.shots from player\_shooting as p join player\_stats as ps on p.player=ps.player where p.shots!=0) select player,shots,club,shots\_on\_target,goals,acc from cte\_p where acc>20 and goals>2 order by acc desc

**Top 10 Clubs with Young and High-Performing Players.**

with cte\_p(player,acc,club,shots\_on\_target,goals,age) as(select p.player,((shots\_on\_target/shots)\*100) ,ps.club,p.shots\_on\_target,p.goals,p.age from player\_shooting as p join player\_stats as ps on p.player=ps.player where p.shots!=0 and p.age<28 ) select count(player) as c,club from cte\_p where acc>20 and goals>0 group by club order by c desc,club limit 10

**Top 10 Teams with Young and High-Performing Players.**

with cte\_p(player,acc,team,shots\_on\_target,goals,age) as(select p.player,((shots\_on\_target/shots)\*100) ,p.team,p.shots\_on\_target,p.goals,p.age from player\_shooting as p join player\_stats as ps on p.player=ps.player where p.shots!=0 and p.age<28 ) select count(player) as c,team from cte\_p where acc>20 and goals>0 group by team order by c desc,team limit 10

**Analyzing Player Performance in Terms of Goals, Shots, and Assists.**

with cte\_p(player,shotsontarget,goals,shots,goals\_90,ass\_90) as(select p.player,shots\_on\_target,p.goals,p.shots,ps.goals\_per90,ps.assists\_per90 from player\_shooting as p join player\_stats as ps on p.player=ps.player where ps.minutes\_90s>2) select player,shots,goals,shotsontarget,ass\_90,goals\_90 from cte\_p order by goals desc,player,ass\_90 des