

South African Soccer Dataset – SQL

1. View the first 100 rows of the dataset to understand its structure.

1	SELECT TOP 100 * FROM south_african_soccer_dataset_advanced;
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98	SELECT TOP 100 * FROM south_african_soccer_dataset_advanced;
99	SELECT TOP 100 * FROM south_african_soccer_dataset_advanced;
100	SELECT TOP 100 * FROM south_african_soccer_dataset_advanced;

2. Count the total number of players in the dataset.

```
--Query SQL
SELECT COUNT(*) AS total_players FROM south_african_soccer;
```

total_players
122

The screenshot shows a SQL query in SQL Server Enterprise. The query is as follows:

```

WITH RankedPlayers AS (
    SELECT
        PlayerID,
        PlayerName,
        Assists,
        ROW_NUMBER() OVER (
            ORDER BY Assists DESC
        ) AS Rank
    FROM
        PlayerStats
)
SELECT
    PlayerName
FROM
    RankedPlayers
WHERE
    Rank <= 10

```

The results pane shows the following data:

PlayerName
Darius R. Johnson
Michael J. Smith
John Doe
Jane Doe
Chris Smith
David Jones
Emily White
Robert Brown
Kevin Green
Laura Black
James Grey
Sarah White
Michael Brown
David Green
John White
Jane Brown
Chris Green
David White
Emily Brown
Robert Green
Kevin White
Laura Brown
James Green
Sarah White
Michael Brown
David Green
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The screenshot shows a SQL IDE interface. The top toolbar includes icons for file operations (New, Open, Save, Print, Copy, Paste, Undo, Redo), editing (Find, Replace), and execution (Execute, Stop, Refresh, etc.). The main query window contains the following SQL code:

```

SELECT * FROM mwpn_ql_squads_datast_advanac;

--Query 1
SELECT top 100 * FROM mwpn_ql_squads_datast_advanac;

--Query 2
SELECT COUNT(*) AS TOTAL_players FROM mwpn_ql_squads_datast_advanac;

--1. List all unique teams in the league:
SELECT DISTINCT TEAM FROM mwpn_ql_squads_datast_advanac;

--2. Count how many players are in each team
SELECT TEAM, COUNT(*) AS players_per_team FROM mwpn_ql_squads_datast_advanac GROUP BY TEAM;

```

The results window displays the output of the last query, showing a list of teams and their corresponding player counts:

TEAM	players_per_team
1. Borussia Dortmund	14
2. Bayern Munich	14
3. FC Bayern Muenchen	14
4. FC Bayern Muenchen	14
5. FC Bayern Muenchen	14
6. FC Bayern Muenchen	14
7. FC Bayern Muenchen	14
8. FC Bayern Muenchen	14
9. FC Bayern Muenchen	14
10. FC Bayern Muenchen	14
11. FC Bayern Muenchen	14
12. FC Bayern Muenchen	14
13. FC Bayern Muenchen	14
14. FC Bayern Muenchen	14
15. FC Bayern Muenchen	14
16. FC Bayern Muenchen	14
17. FC Bayern Muenchen	14
18. FC Bayern Muenchen	14
19. FC Bayern Muenchen	14
20. FC Bayern Muenchen	14

5. Identify the top 10 players with the most goals

The screenshot shows a SQL query in a development tool. The query is as follows:

```
SELECT COUNT(*) AS total_players FROM ketro_sa_soccer_dataset_advanced;

--3. List all unique teams in the league.
SELECT DISTINCT team FROM ketro_sa_soccer_dataset_advanced;

--4. Count how many players are in each team.
SELECT team, COUNT(*) AS players_per_team FROM ketro_sa_soccer_dataset_advanced GROUP BY team;

--5. Identify the top 10 players with the most goals.
SELECT TOP 10 player_name, goals FROM ketro_sa_soccer_dataset_advanced ORDER BY goals DESC;
```

The results pane shows the output of the last query, listing the top 10 players by goals:

Rank	Player Name	Goals
1	Luis Suarez	11
2	Christiano Ronaldo	10
3	Robert Lewandowski	9
4	Harry Kane	8
5	Kevin De Bruyne	7
6	Lionel Messi	6
7	Antony	5
8	Diogo Jota	4
9	Joao Pedro	3
10	Strahinja Pavlovic	2

6. Find the average salary for players in each team

The screenshot shows a SQL query in a development tool. The query is as follows:

```
--3. List all unique teams in the league.
SELECT DISTINCT team FROM ketro_sa_soccer_dataset_advanced;

--4. Count how many players are in each team.
SELECT team, COUNT(*) AS players_per_team FROM ketro_sa_soccer_dataset_advanced GROUP BY team;

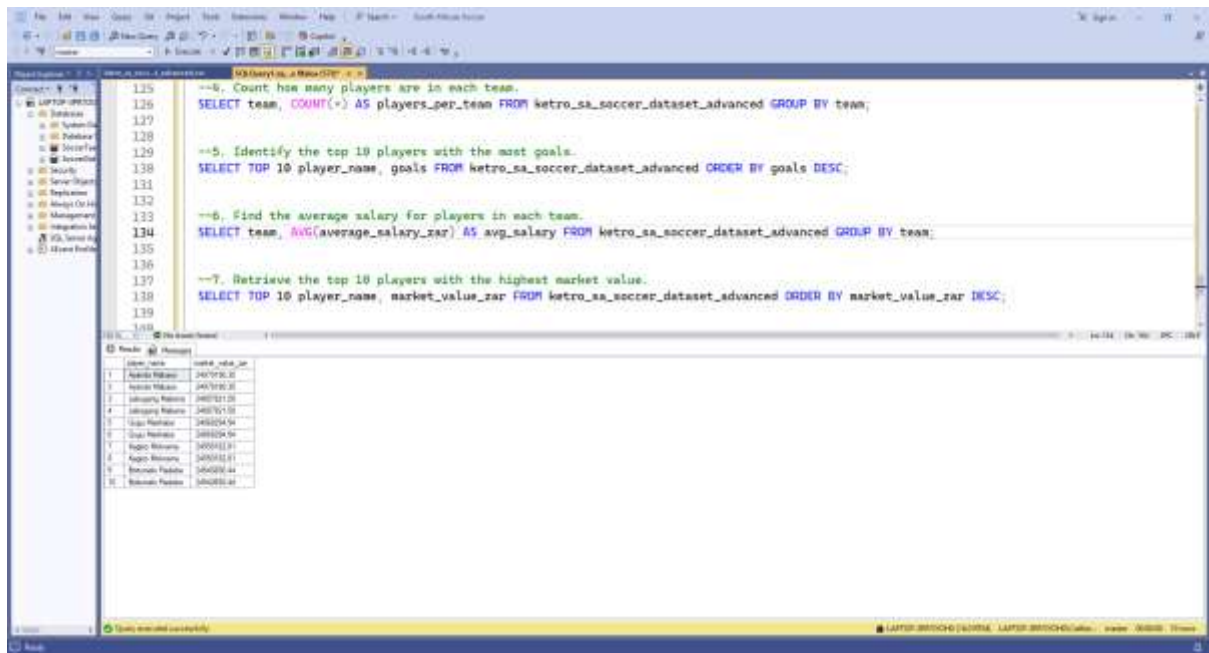
--5. Identify the top 10 players with the most goals.
SELECT TOP 10 player_name, goals FROM ketro_sa_soccer_dataset_advanced ORDER BY goals DESC;

--6. Find the average salary for players in each team.
SELECT team, AVG(average_salary_eur) AS avg_salary FROM ketro_sa_soccer_dataset_advanced GROUP BY team;
```

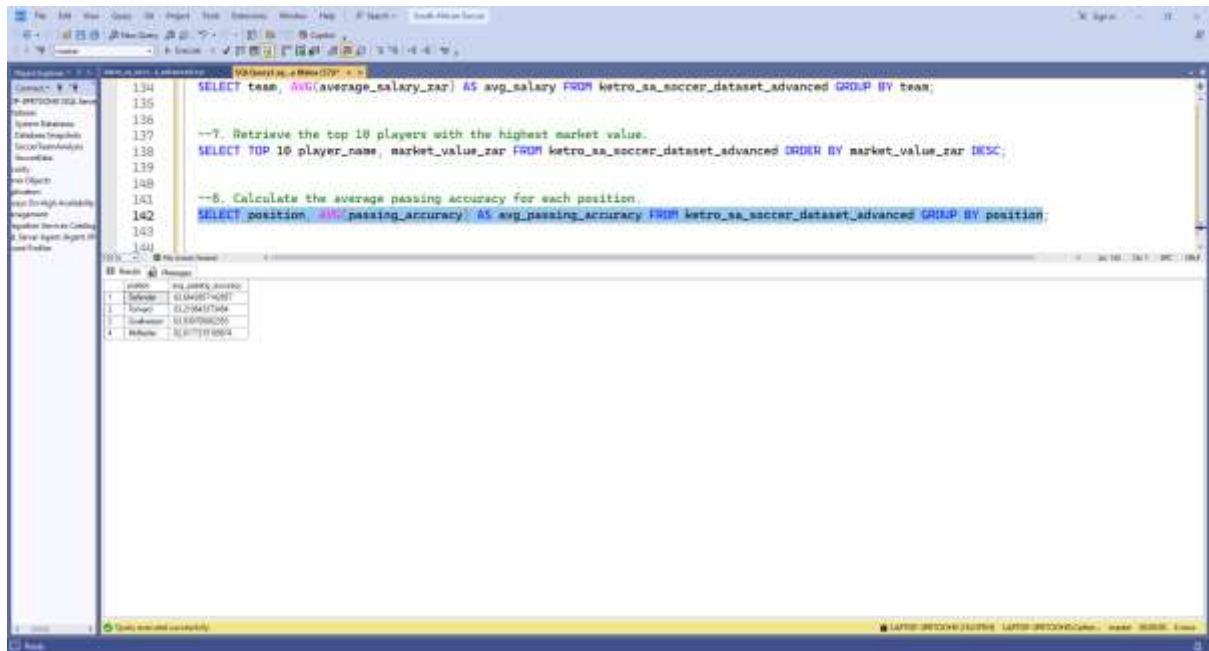
The results pane shows the output of the last query, listing the average salary for each team:

Rank	Team	Avg Salary (EUR)
1	Manchester City	17,000,000.00
2	Bayern Munich	16,000,000.00
3	Real Madrid	15,000,000.00
4	Paris Saint-Germain	14,000,000.00
5	Liverpool	13,000,000.00
6	Chelsea	12,000,000.00
7	Manchester United	11,000,000.00
8	Barcelona	10,000,000.00
9	Juventus	9,000,000.00
10	Inter Milan	8,000,000.00

7. Retrieve the top 10 players with the highest market value.



8. Calculate the average passing accuracy for each position.



9. Compare shot accuracy with goals to find correlations.

The screenshot shows a SQL Studio window with the following SQL queries:

```

--7. Retrieve the top 10 players with the highest market value.
SELECT TOP 10 player_name, market_value_zar FROM ketro_sa_soccer_dataset_advanced ORDER BY market_value_zar DESC;

--8. Calculate the average passing accuracy for each position.
SELECT position, AVG(passing_accuracy) AS avg_passing_accuracy FROM ketro_sa_soccer_dataset_advanced GROUP BY position;

--9. Compare shot accuracy with goals to find correlations.
SELECT player_name, goals, shot_accuracy FROM ketro_sa_soccer_dataset_advanced;

```

The results table displays the following data:

player_name	goals	shot_accuracy
1	10	10.0
2	10	10.0
3	10	10.0
4	10	10.0
5	10	10.0
6	10	10.0
7	10	10.0
8	10	10.0
9	10	10.0
10	10	10.0
11	10	10.0
12	10	10.0
13	10	10.0
14	10	10.0
15	10	10.0
16	10	10.0
17	10	10.0
18	10	10.0
19	10	10.0
20	10	10.0
21	10	10.0
22	10	10.0
23	10	10.0
24	10	10.0
25	10	10.0
26	10	10.0
27	10	10.0
28	10	10.0
29	10	10.0
30	10	10.0
31	10	10.0
32	10	10.0
33	10	10.0
34	10	10.0
35	10	10.0
36	10	10.0
37	10	10.0
38	10	10.0
39	10	10.0
40	10	10.0
41	10	10.0
42	10	10.0
43	10	10.0
44	10	10.0
45	10	10.0
46	10	10.0
47	10	10.0
48	10	10.0
49	10	10.0
50	10	10.0

10. Compute total goals and assists for each team

The screenshot shows a SQL Studio window with the following SQL queries:

```

--8. Calculate the average passing accuracy for each position.
SELECT position, AVG(passing_accuracy) AS avg_passing_accuracy FROM ketro_sa_soccer_dataset_advanced GROUP BY position;

--9. Compare shot accuracy with goals to find correlations.
SELECT player_name, goals, shot_accuracy FROM ketro_sa_soccer_dataset_advanced;

--10. Compute total goals and assists for each team.
SELECT team, SUM(goals) AS total_goals, SUM(assists) AS total_assists FROM ketro_sa_soccer_dataset_advanced GROUP BY team;

```

The results table displays the following data:

team	total_goals	total_assists
1	100	110
2	120	110
3	90	100
4	100	110
5	100	110
6	100	110
7	100	110
8	100	110
9	100	110
10	100	110
11	100	110
12	100	110
13	100	110
14	100	110
15	100	110
16	100	110
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38	100	110
39	100	110
40	100	110
41	100	110
42	100	110
43	100	110
44	100	110
45	100	110
46	100	110
47	100	110
48	100	110
49	100	110
50	100	110

11. Count players by their marital status.

The screenshot shows a SQL query editor with the following code:

```
--9. Compare shot accuracy with goals to find correlations.  
SELECT player_name, goals, shot_accuracy FROM ketro_sa_soccer_dataset_advanced;  
  
--10. Compute total goals and Assists for each team.  
SELECT team, SUM(goals) AS total_goals, SUM(assists) AS total_assists FROM ketro_sa_soccer_dataset_advanced GROUP BY team;  
  
--11. Count players by their marital status.  
SELECT marital_status, COUNT(*) AS count_players FROM ketro_sa_soccer_dataset_advanced GROUP BY marital_status;
```

The results pane shows the output of the last query:

marital_status	count_players
Divorced	25
Married	133
Single	190
Widowed	88

12. Count players by nationality.

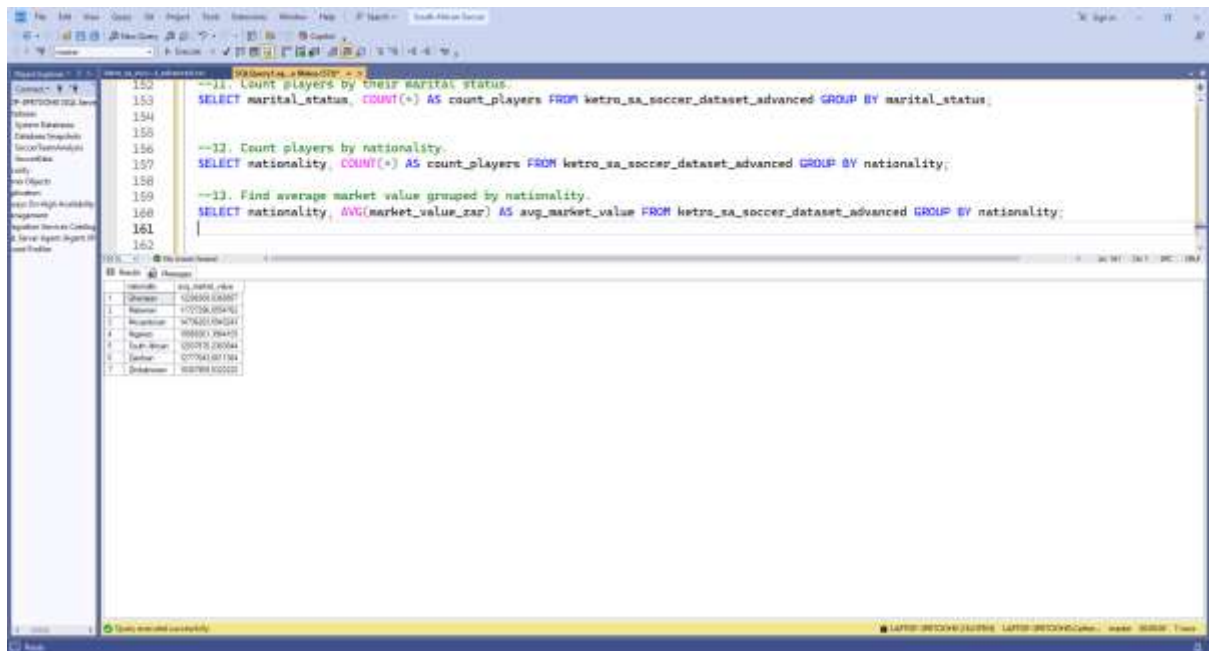
The screenshot shows a SQL query editor with the following code:

```
--10. Compute total goals and Assists for each team.  
SELECT team, SUM(goals) AS total_goals, SUM(assists) AS total_assists FROM ketro_sa_soccer_dataset_advanced GROUP BY team;  
  
--11. Count players by their marital status.  
SELECT marital_status, COUNT(*) AS count_players FROM ketro_sa_soccer_dataset_advanced GROUP BY marital_status;  
  
--12. Count players by nationality.  
SELECT nationality, COUNT(*) AS count_players FROM ketro_sa_soccer_dataset_advanced GROUP BY nationality;
```

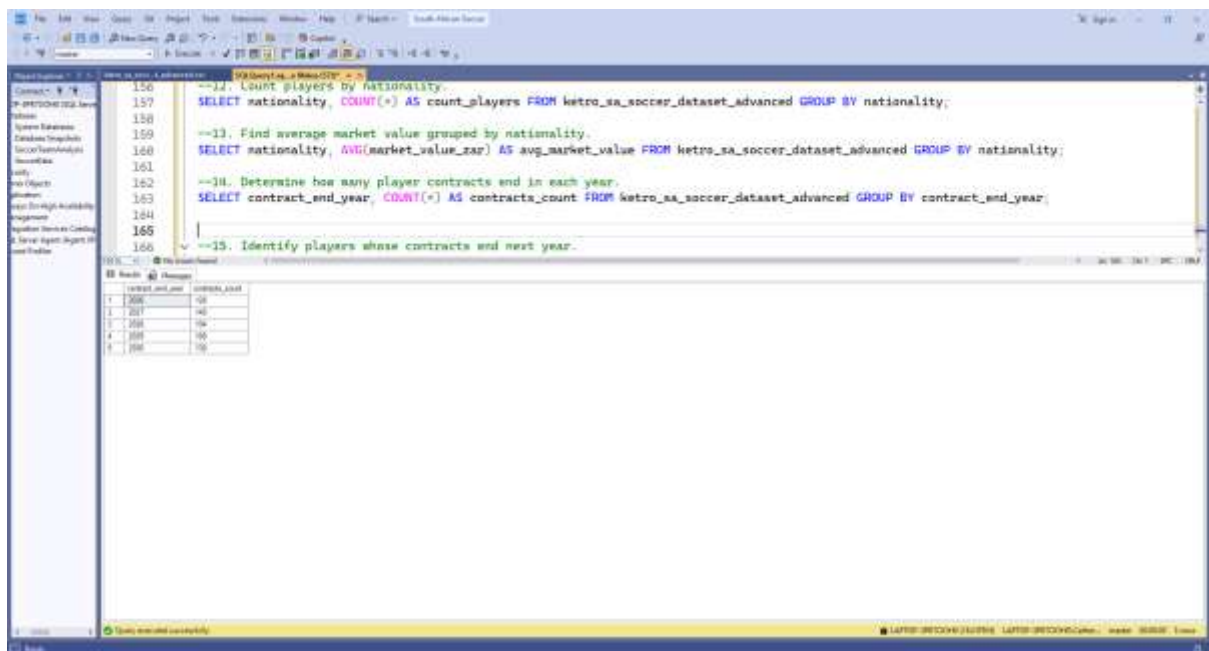
The results pane shows the output of the last query:

nationality	count_players
Chinese	24
Japanese	24
American	24
English	72
South African	82
Spanish	88
Swedish	88

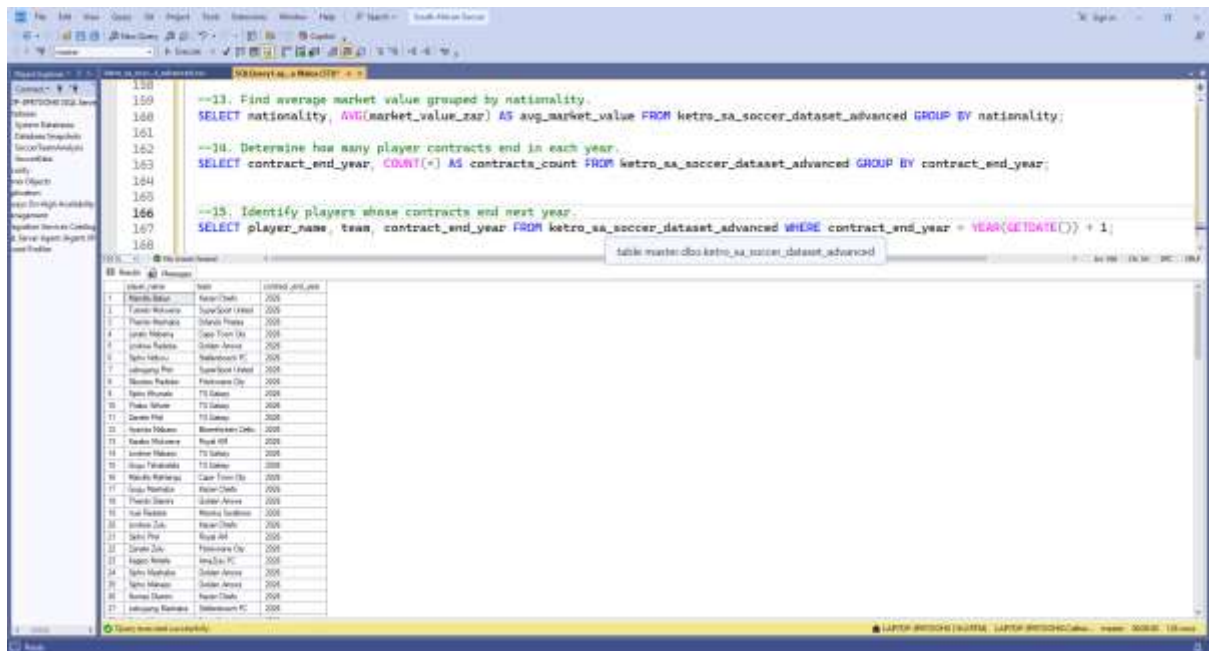
13. Find average market value grouped by nationality.



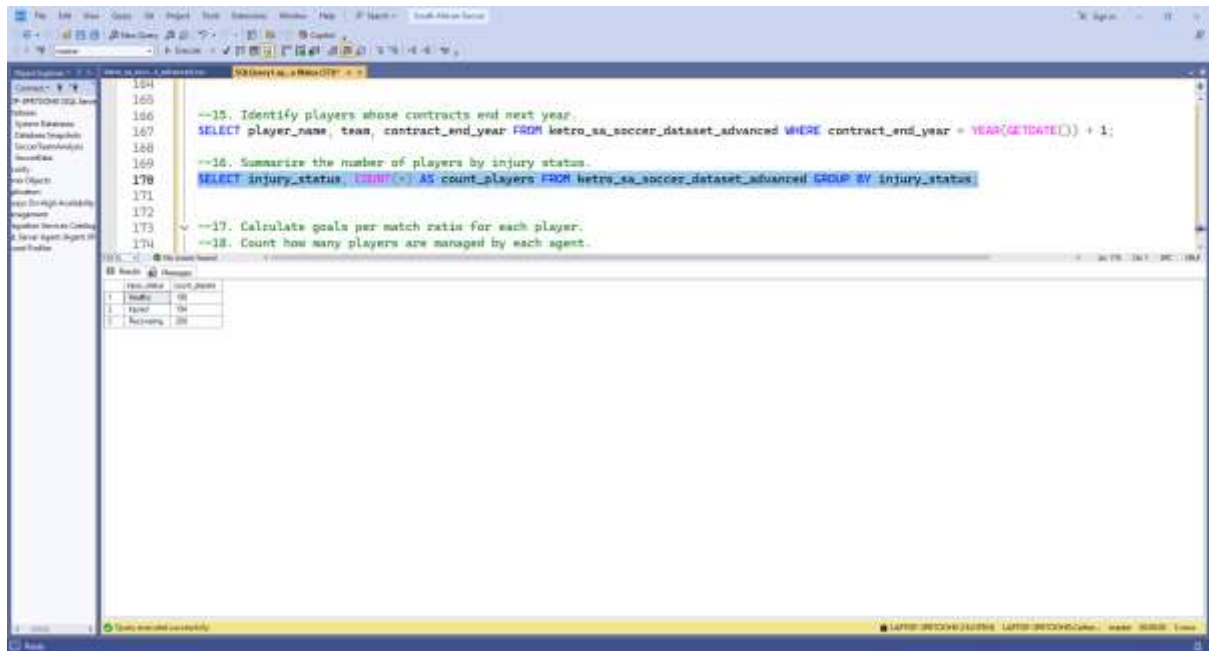
14. Determine how many player contracts end in each year.



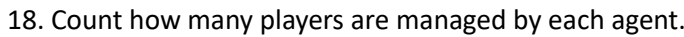
15. Identify players whose contracts end next year.



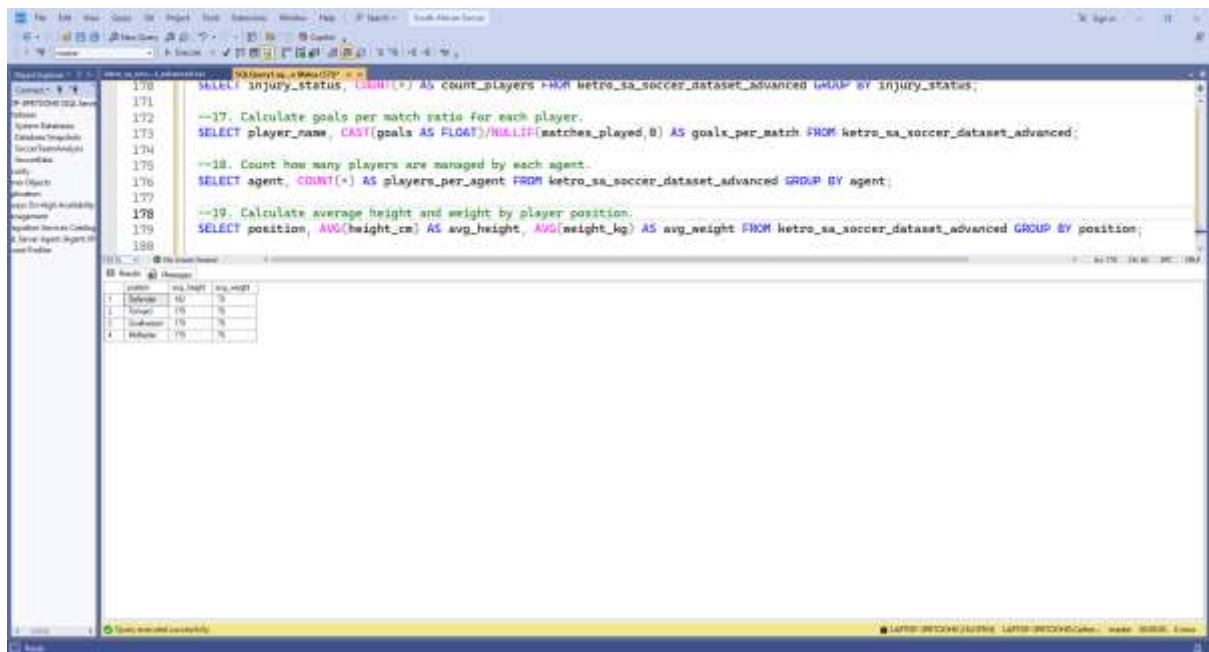
16. Summarize the number of players by injury status.



17. Calculate goals per match ratio for each player.



19. Calculate average height and weight by player position.



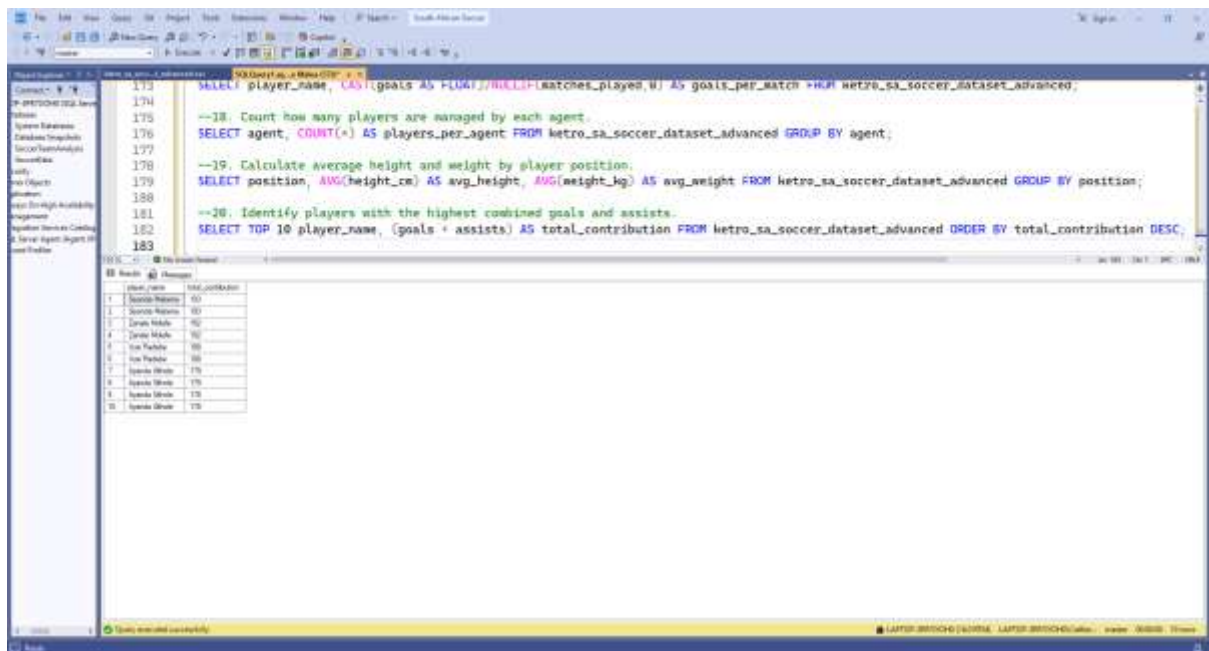
```

170 SELECT injury_status, COUNT(*) AS count_players FROM metro_sa_soccer_dataset_advanced GROUP BY injury_status;
171
172 --17. Calculate goals per match ratio for each player.
173 SELECT player_name, CAST(goals AS FLOAT)/NULLIF(matches_played,0) AS goals_per_match FROM metro_sa_soccer_dataset_advanced;
174
175 --18. Count how many players are managed by each agent.
176 SELECT agent, COUNT(*) AS players_per_agent FROM metro_sa_soccer_dataset_advanced GROUP BY agent;
177
178 --19. Calculate average height and weight by player position.
179 SELECT position, AVG(height_cm) AS avg_height, AVG(weight_kg) AS avg_weight FROM metro_sa_soccer_dataset_advanced GROUP BY position;
180

```

position	avg_height	avg_weight
Midfielder	175	75
Forward	178	78
Goalkeeper	185	85
Defender	175	75

20. Identify players with the highest combined goals and assists.



```

173 SELECT player_name, (goals + assists) AS total_contribution FROM metro_sa_soccer_dataset_advanced;
174
175 --18. Count how many players are managed by each agent.
176 SELECT agent, COUNT(*) AS players_per_agent FROM metro_sa_soccer_dataset_advanced GROUP BY agent;
177
178 --19. Calculate average height and weight by player position.
179 SELECT position, AVG(height_cm) AS avg_height, AVG(weight_kg) AS avg_weight FROM metro_sa_soccer_dataset_advanced GROUP BY position;
180
181 --20. Identify players with the highest combined goals and assists.
182 SELECT TOP 10 player_name, (goals + assists) AS total_contribution FROM metro_sa_soccer_dataset_advanced ORDER BY total_contribution DESC;
183

```

player_name	total_contribution
David Beckham	60
Steven Gerrard	50
Frank Lampard	40
Andriy Shevchenko	30
Lee Keeney	20
Stephen Ireland	15
Stephen Ireland	15
Stephen Ireland	15
Stephen Ireland	15
Stephen Ireland	15