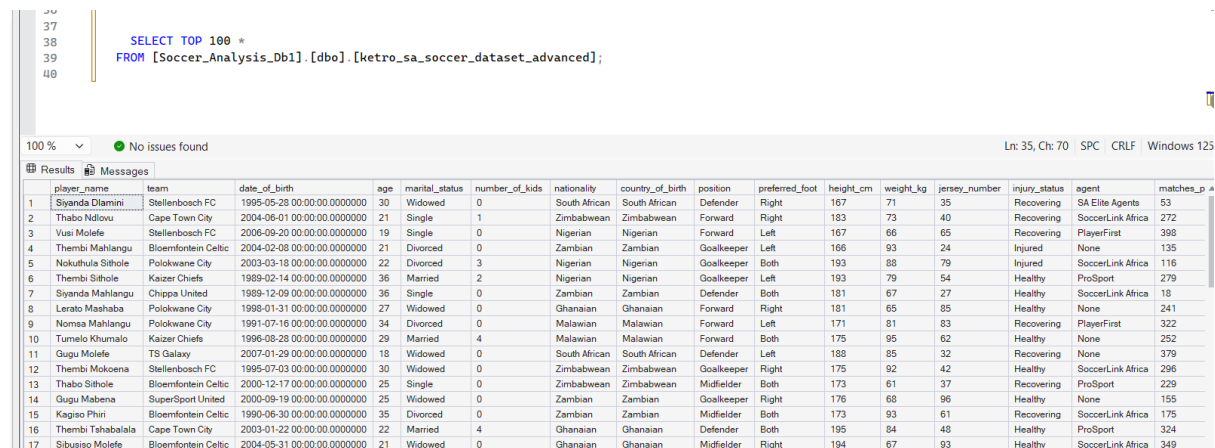Sonali Matadin

South African Soccer Dataset – SQL

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

Sql:

```sql
SELECT TOP 100 *
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced];
```
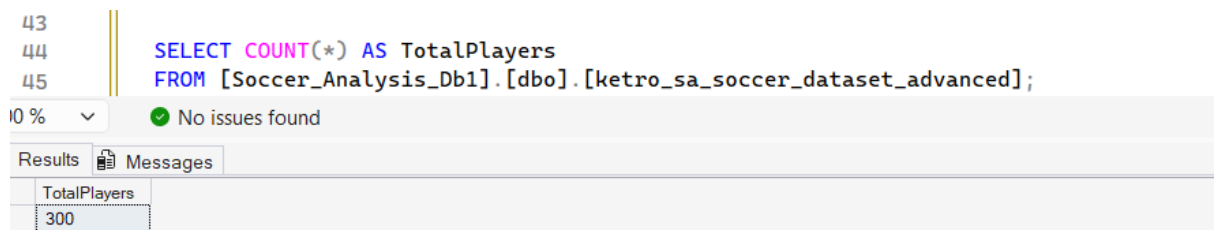

2. Count the total number of players in the dataset.
   Sql:

```sql
SELECT COUNT(*) AS TotalPlayers
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced];
```

3. List all unique teams in the league.

Sql:

```sql
SELECT DISTINCT Team
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced];
```

```
48        SELECT DISTINCT Team
49        FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced];
```

100 %   ✓ No issues found

Results | Messages

	Team
1	AmaZulu FC
2	Bloemfontein Celtic
3	Cape Town City
4	Chippa United
5	Golden Arrows
6	Kaizer Chiefs
7	Mamelodi Sundowns
8	Moroka Swallows
9	Orlando Pirates
10	Polokwane City
11	Richards Bay FC
12	Royal AM
13	Sekhukhune United
14	Stellenbosch FC
15	SuperSport United
16	TS Galaxy

4. Count how many players are in each team.

Sql:

```sql
SELECT Team, COUNT(*) AS PlayersPerTeam
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY Team;
```

```
52        SELECT Team, COUNT(*) AS PlayersPerTeam
53        FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
54        GROUP BY Team;
55
```

100 %   ✓ No issues found

Results | Messages

	Team	PlayersPerTeam
1	AmaZulu FC	22
2	Bloemfontein Celtic	17
3	Cape Town City	15
4	Chippa United	21
5	Golden Arrows	23
6	Kaizer Chiefs	20
7	Mamelodi Sundowns	19
8	Moroka Swallows	19
9	Orlando Pirates	9
10	Polokwane City	27
11	Richards Bay FC	13
12	Royal AM	18
13	Sekhukhune United	17
14	Stellenbosch FC	20
15	SuperSport United	20
16	TS Galaxy	20

5. Identify the top 10 players with the most goals.

Sql:

```sql
SELECT TOP 10 player_name, Goals
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
ORDER BY Goals DESC;
```

```
57
58          SELECT TOP 10 player_name, Goals
59          FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
60          ORDER BY Goals DESC;
```

100 %   ∨   ✓ No issues found

⊞ Results 📄 Messages

	player_name	Goals
1	Vusi Molefe	99
2	Thabo Ndlovu	98
3	Gugu Hlongwane	98
4	Thabo Sithole	98
5	Mandla Mabena	98
6	Mpho Mahlangu	97
7	Boitumelo Nkosi	96
8	Mpho Radebe	92
9	Khanyi Nkosi	92
10	Sipho Phiri	91

6. Find the average salary for players in each team.

Sql:

```sql
SELECT
    Team,
    AVG(CAST(average_salary_zar AS FLOAT)) AS AvgSalary
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY Team;
```

```
63          SELECT
64              Team,
65              AVG(CAST(average_salary_zar AS FLOAT)) AS AvgSalary
66          FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
67          GROUP BY Team;
68
```

100 %   ∨   ⊗ 1 ⚠ 0 ↑ ↓
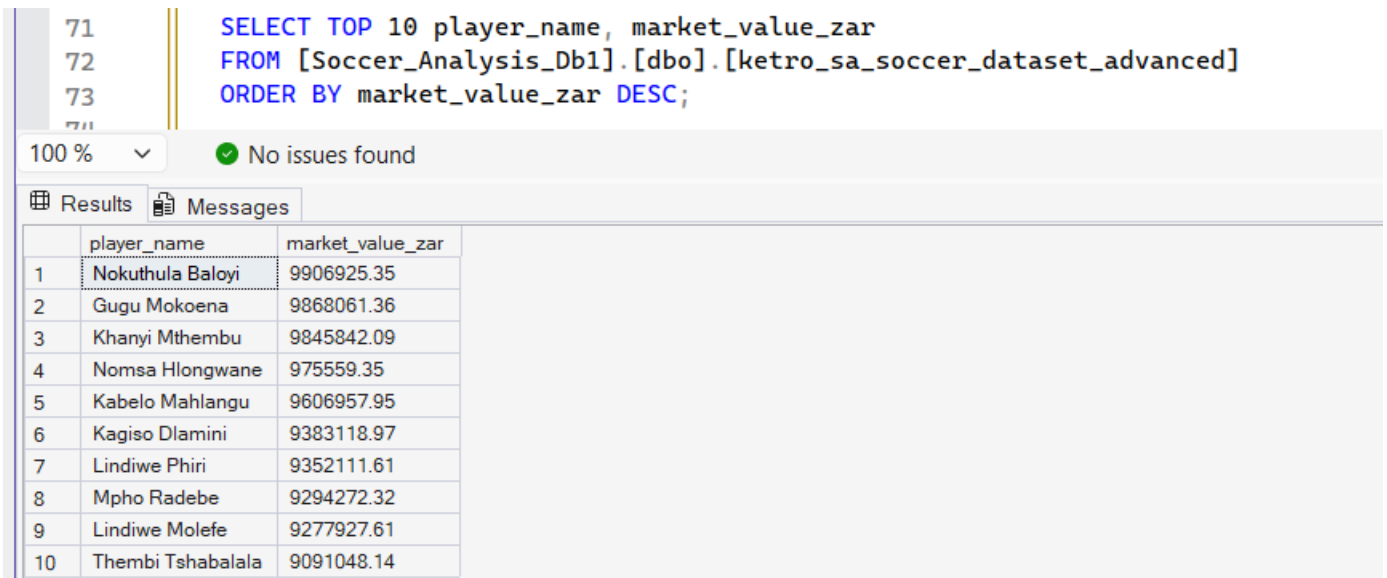
⊞ Results 📄 Messages

	Team	AvgSalary
1	AmaZulu FC	172467.569545455
2	Bloemfontein Celtic	163683.838823529
3	Cape Town City	208407.432
4	Chippa United	180947.634761905
5	Golden Arrows	199057.643913043
6	Kaizer Chiefs	188954.4615
7	Mamelodi Sundowns	194404.484736842
8	Moroka Swallows	186786.827894737
9	Orlando Pirates	178570.593333333
10	Polokwane City	171738.877777778
11	Richards Bay FC	193006.199230769
12	Royal AM	209078.331111111
13	Sekhukhune United	169945.162941176
14	Stellenbosch FC	182326.7355
15	SuperSport United	195482.9785
16	TS Galaxy	184719.574

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

Sql:

```sql
SELECT TOP 10 player_name, market_value_zar
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
ORDER BY market_value_zar DESC;
```

```
71          SELECT TOP 10 player_name, market_value_zar
72          FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
73          ORDER BY market_value_zar DESC;
7//
```

100 %   ✔ No issues found
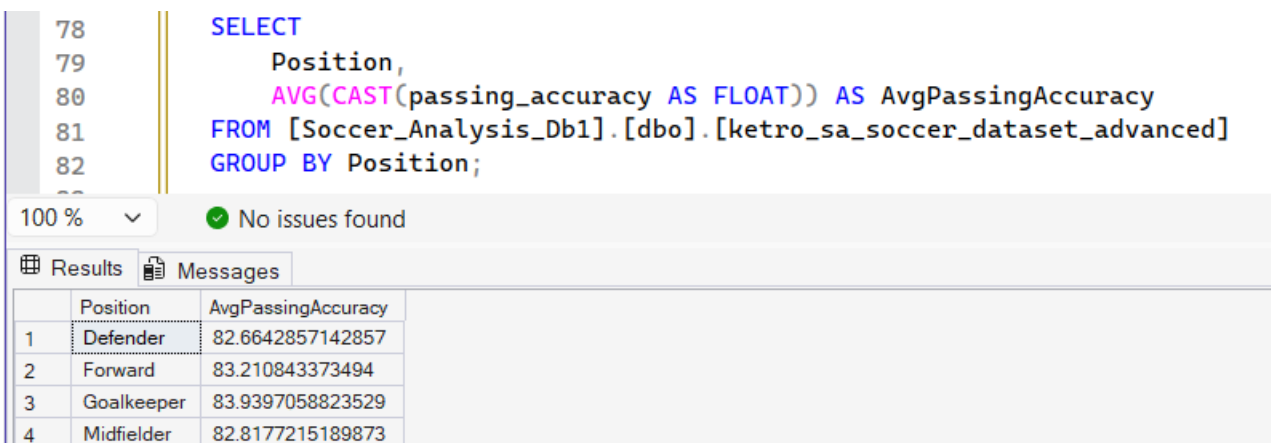
⊞ Results 📄 Messages

	player_name	market_value_zar
1	Nokuthula Baloyi	9906925.35
2	Gugu Mokoena	9868061.36
3	Khanyi Mthembu	9845842.09
4	Nomsa Hlongwane	975559.35
5	Kabelo Mahlangu	9606957.95
6	Kagiso Dlamini	9383118.97
7	Lindiwe Phiri	9352111.61
8	Mpho Radebe	9294272.32
9	Lindiwe Molefe	9277927.61
10	Thembi Tshabalala	9091048.14

8. Calculate the average passing accuracy for each position.

Sql:

```sql
SELECT
    Position,
    AVG(CAST(passing_accuracy AS FLOAT)) AS AvgPassingAccuracy
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY Position;
```

```
78          SELECT
79              Position,
80              AVG(CAST(passing_accuracy AS FLOAT)) AS AvgPassingAccuracy
81          FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
82          GROUP BY Position;
```

100 %   ✔ No issues found

⊞ Results 📄 Messages

	Position	AvgPassingAccuracy
1	Defender	82.6642857142857
2	Forward	83.210843373494
3	Goalkeeper	83.9397058823529
4	Midfielder	82.8177215189873

9. Compare shot accuracy with goals to find correlations.
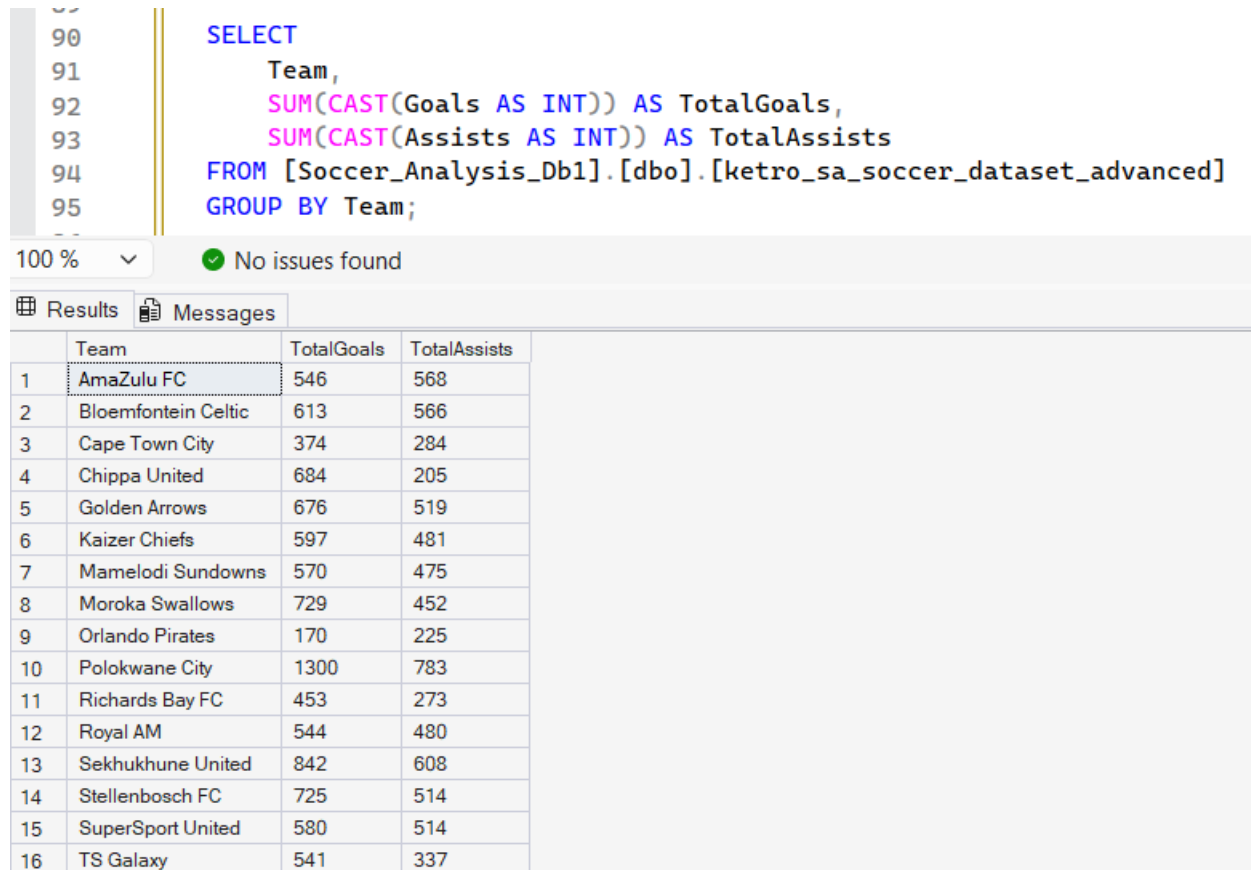
```sql
SELECT player_name, Goals, shot_accuracy
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced];
```

```
85        SELECT player_name, Goals, shot_accuracy
86        FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced];
07
```

100 %   ⌄   ✓ No issues found

⊞ Results 🗐 Messages

	player_name	Goals	shot_accuracy
1	Siyanda Dlamini	9	83.7
2	Thabo Ndlovu	98	68.4
3	Vusi Molefe	99	79.0
4	Thembi Mahlangu	1	42.9
5	Nokuthula Sithole	2	74.0
6	Thembi Sithole	3	70.7
7	Siyanda Mahlangu	6	54.2
8	Lerato Mashaba	77	68.5
9	Nomsa Mahlangu	80	56.1
10	Tumelo Khumalo	48	46.0
11	Gugu Molefe	7	83.2
12	Thembi Mokoena	1	56.7
13	Thabo Sithole	14	80.6
14	Gugu Mabena	4	80.0
15	Kagiso Phiri	41	73.2
16	Thembi Tshabalala	7	76.7
17	Sibusiso Molefe	48	51.1
18	Lerato Tshabalala	10	56.8
19	Kagiso Tshabalala	36	64.4
20	Gugu Hlongwane	98	81.1
21	Ayanda Sithole	107	54.0
22	Mandla Baloyi	89	54.1
23	Nokuthula Baloyi	7	62.8
24	Zanele Molefe	116	61.2
25	Karabo Mthembu	5	41.5
26	Thembi Zulu	72	70.0
27	Khanyi Baloyi	2	54.8
28	Karabo Phiri	72	64.5

10. Compute total goals and assists for each team.

Sql:

```sql
SELECT
    Team,
    SUM(CAST(Goals AS INT)) AS TotalGoals,
    SUM(CAST(Assists AS INT)) AS TotalAssists
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY Team;
```
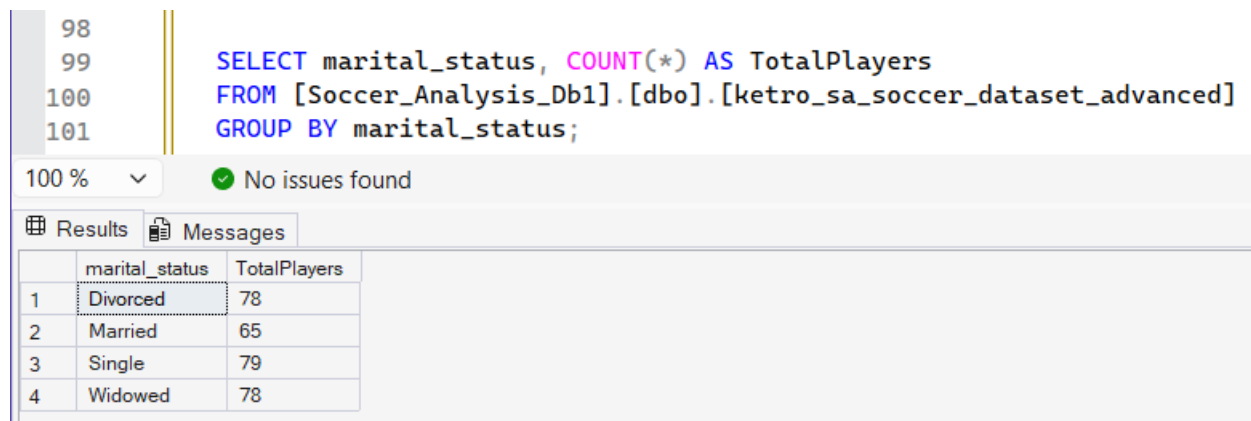
```sql
90          SELECT
91              Team,
92              SUM(CAST(Goals AS INT)) AS TotalGoals,
93              SUM(CAST(Assists AS INT)) AS TotalAssists
94          FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
95          GROUP BY Team;
```

100 %   ∨   ✓ No issues found

⊞ Results   📄 Messages

	Team	TotalGoals	TotalAssists
1	AmaZulu FC	546	568
2	Bloemfontein Celtic	613	566
3	Cape Town City	374	284
4	Chippa United	684	205
5	Golden Arrows	676	519
6	Kaizer Chiefs	597	481
7	Mamelodi Sundowns	570	475
8	Moroka Swallows	729	452
9	Orlando Pirates	170	225
10	Polokwane City	1300	783
11	Richards Bay FC	453	273
12	Royal AM	544	480
13	Sekhukhune United	842	608
14	Stellenbosch FC	725	514
15	SuperSport United	580	514
16	TS Galaxy	541	337

11. Count players by their marital status.

Sql:

```sql
SELECT marital_status, COUNT(*) AS TotalPlayers
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY marital_status;
```

```sql
98
99          SELECT marital_status, COUNT(*) AS TotalPlayers
100         FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
101         GROUP BY marital_status;
```
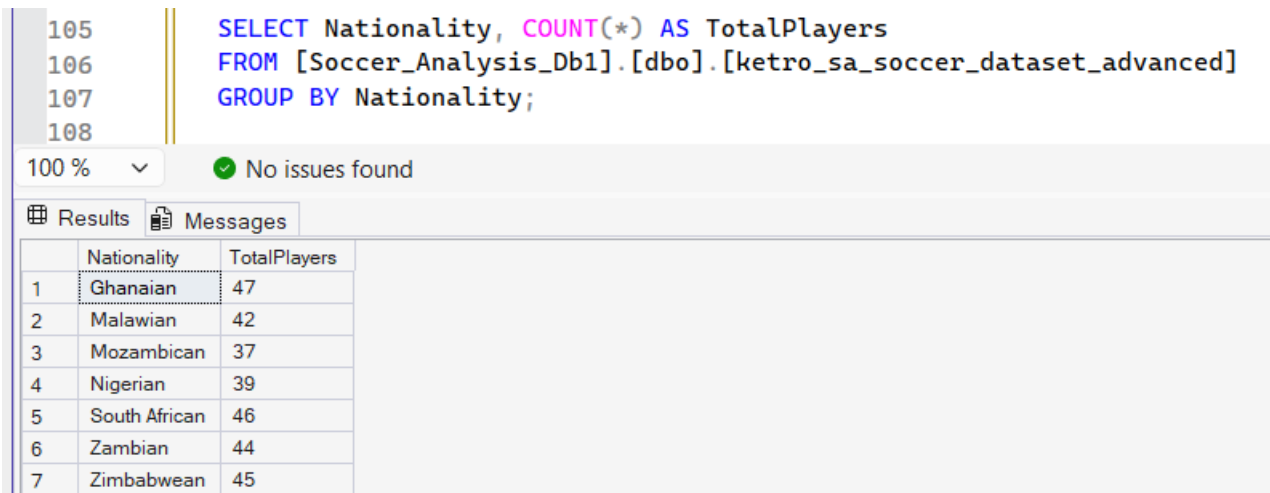
100 %   ∨   ✓ No issues found

⊞ Results   📄 Messages

	marital_status	TotalPlayers
1	Divorced	78
2	Married	65
3	Single	79
4	Widowed	78

12. Count players by nationality.

Sql:

```sql
SELECT Nationality, COUNT(*) AS TotalPlayers
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY Nationality;
```

```
105        SELECT Nationality, COUNT(*) AS TotalPlayers
106        FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
107        GROUP BY Nationality;
108
```
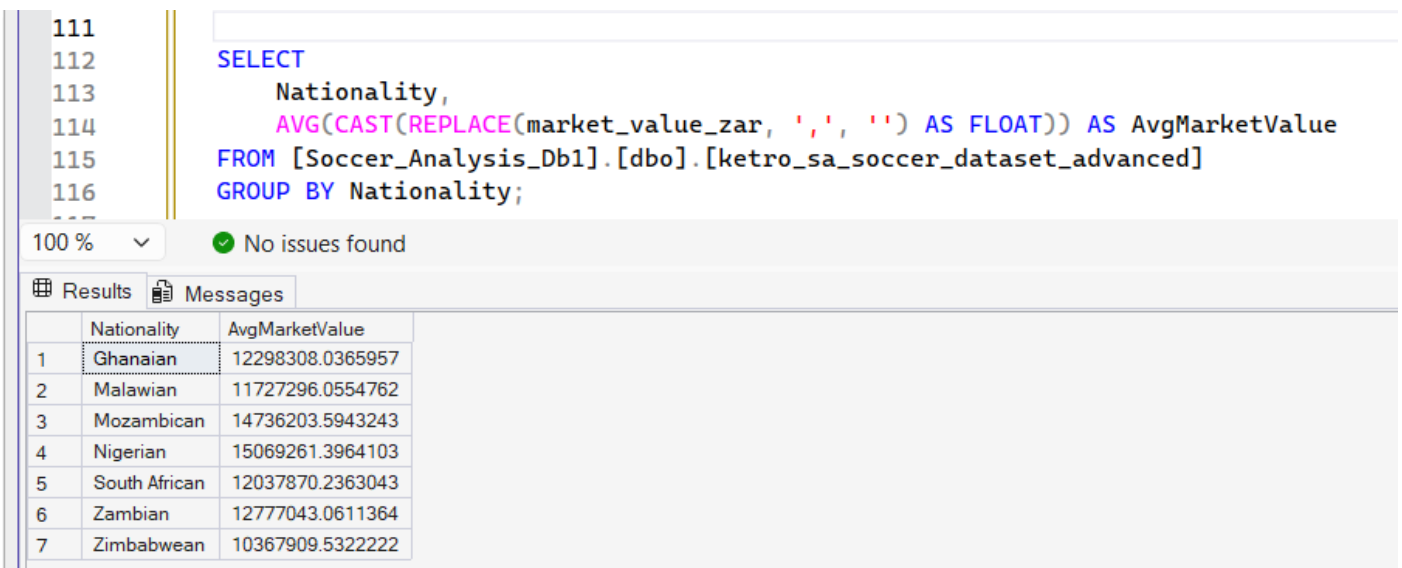
100 % ⌄   ✅ No issues found

⊞ Results 📄 Messages

	Nationality	TotalPlayers
1	Ghanaian	47
2	Malawian	42
3	Mozambican	37
4	Nigerian	39
5	South African	46
6	Zambian	44
7	Zimbabwean	45

13. Find average market value grouped by nationality.

Sql:

```sql
SELECT
    Nationality,
    AVG(CAST(REPLACE(market_value_zar, ',', '') AS FLOAT)) AS AvgMarketValue
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY Nationality;
```

```
111
112        SELECT
113            Nationality,
114            AVG(CAST(REPLACE(market_value_zar, ',', '') AS FLOAT)) AS AvgMarketValue
115        FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
116        GROUP BY Nationality;
```

100 % ⌄   ✅ No issues found

⊞ Results 📄 Messages
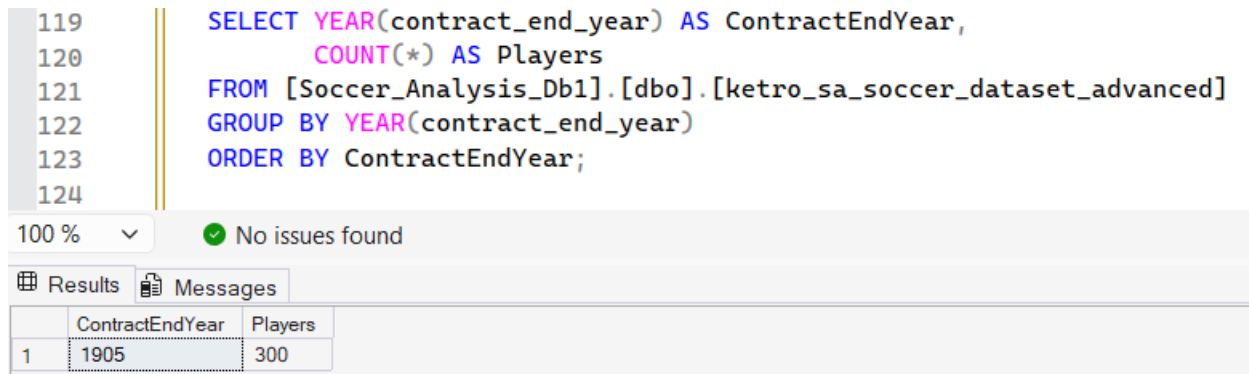
	Nationality	AvgMarketValue
1	Ghanaian	12298308.0365957
2	Malawian	11727296.0554762
3	Mozambican	14736203.5943243
4	Nigerian	15069261.3964103
5	South African	12037870.2363043
6	Zambian	12777043.0611364
7	Zimbabwean	10367909.5322222

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

Sql:

```sql
SELECT YEAR(contract_end_year) AS ContractEndYear,
       COUNT(*) AS Players
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY YEAR(contract_end_year)
ORDER BY ContractEndYear;
```

```
119        SELECT YEAR(contract_end_year) AS ContractEndYear,
120              COUNT(*) AS Players
121        FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
122        GROUP BY YEAR(contract_end_year)
123        ORDER BY ContractEndYear;
124
```
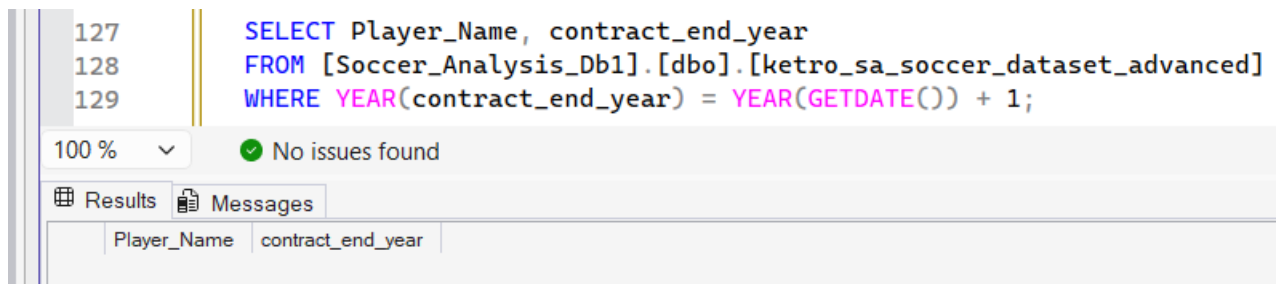
100 %   ⌄   ✓ No issues found

⊞ Results 📄 Messages

	ContractEndYear	Players
1	1905	300

15. Identify players whose contracts end next year.

Sql:

```sql
SELECT Player_Name, contract_end_year
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
WHERE YEAR(contract_end_year) = YEAR(GETDATE()) + 1;
```

```
127        SELECT Player_Name, contract_end_year
128        FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
129        WHERE YEAR(contract_end_year) = YEAR(GETDATE()) + 1;
```
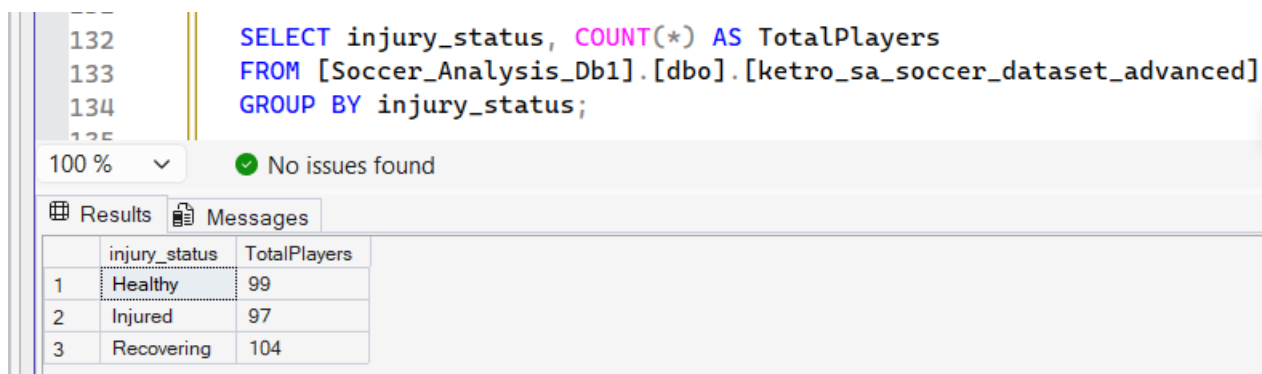
100 %   ⌄   ✓ No issues found

⊞ Results 📄 Messages

Player_Name	contract_end_year

16. Summarize the number of players by injury status.

Sql:

```sql
SELECT injury_status, COUNT(*) AS TotalPlayers
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY injury_status;
```

```
132        SELECT injury_status, COUNT(*) AS TotalPlayers
133        FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
134        GROUP BY injury_status;
135
```

100 %   ⌄   ✓ No issues found

⊞ Results 📄 Messages

	injury_status	TotalPlayers
1	Healthy	99
2	Injured	97
3	Recovering	104

17. Calculate goals per match ratio for each player.

Sql:

```sql
SELECT player_name,
       Goals,
       matches_played,
       CASE WHEN matches_played = 0
            THEN 0
            ELSE CAST(Goals AS FLOAT) / matches_played
       END AS GoalsPerMatch
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced];
```

```
138          SELECT player_name,
139                 Goals,
140                 matches_played,
141                 CASE WHEN matches_played = 0
142                      THEN 0
143                      ELSE CAST(Goals AS FLOAT) / matches_played
144                 END AS GoalsPerMatch
145          FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced];
146
```

100 %   ⌄   ✓ No issues found

⊞ Results 📄 Messages

	player_name	Goals	matches_played	GoalsPerMatch
1	Siyanda Dlamini	9	53	0.169811320754717
2	Thabo Ndlovu	98	272	0.360294117647059
3	Vusi Molefe	99	398	0.248743718592965
4	Thembi Mahlangu	1	135	0.00740740740740741
5	Nokuthula Sithole	2	116	0.0172413793103448
6	Thembi Sithole	3	279	0.010752688172043
7	Siyanda Mahlangu	6	18	0.333333333333333
8	Lerato Mashaba	77	241	0.319502074688797
9	Nomsa Mahlangu	80	322	0.248447204968944
10	Tumelo Khumalo	48	252	0.19047619047619
11	Gugu Molefe	7	379	0.0184696569920844
12	Thembi Mokoena	1	296	0.00337837837837838
13	Thabo Sithole	14	229	0.0611353711790393
14	Gugu Mabena	4	155	0.0258064516129032
15	Kagiso Phiri	41	175	0.234285714285714
16	Thembi Tshabalala	7	324	0.0216049382716049
17	Sibusiso Molefe	48	349	0.137535816618911

18. Count how many players are managed by each agent.

Sql:

```sql
SELECT
    [Agent],
    COUNT(*) AS PlayersManaged
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
    GROUP BY [Agent];
```

```
148          SELECT
149              [Agent],
150              COUNT(*) AS PlayersManaged
151          FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
152          GROUP BY [Agent];
153
```

100 %   ✓   ● No issues found

⊞ Results 📄 Messages

	Agent	PlayersManaged
1	None	62
2	PlayerFirst	63
3	ProSport	62
4	SA Elite Agents	51
5	SoccerLink Africa	62

19. Calculate average height and weight by player position.

Sql:

```sql
SELECT Position,
       AVG(height_cm) AS AvgHeight,
       AVG(weight_kg) AS AvgWeight
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY Position;
```

```
156          SELECT Position,
157              AVG(height_cm) AS AvgHeight,
158              AVG(weight_kg) AS AvgWeight
159          FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
160          GROUP BY Position;
```
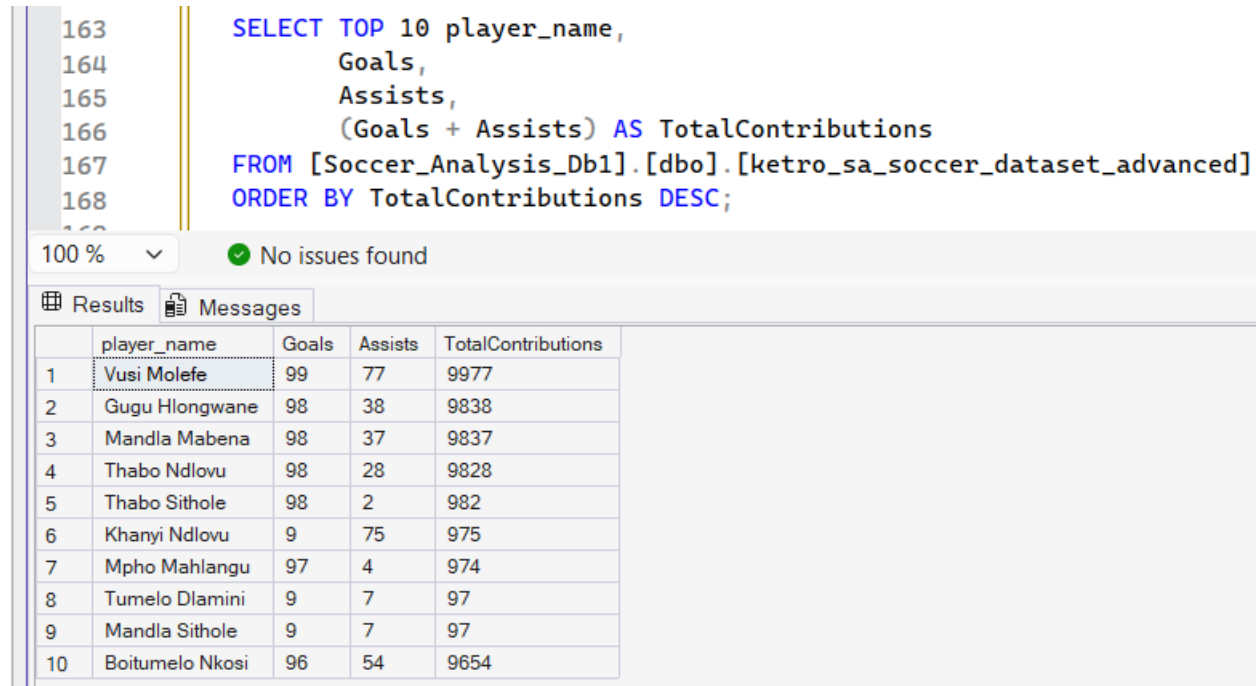
100 %   ✓   ⊗ 2 ⚠ 0 ↑ ↓

⊞ Results 📄 Messages

	Position	AvgHeight	AvgWeight
1	Defender	182	78
2	Forward	179	78
3	Goalkeeper	179	78
4	Midfielder	179	76

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

Sql:

```sql
SELECT TOP 10 player_name,
       Goals,
       Assists,
       (Goals + Assists) AS TotalContributions
FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
ORDER BY TotalContributions DESC;
```

```
163        SELECT TOP 10 player_name,
164                Goals,
165                Assists,
166                (Goals + Assists) AS TotalContributions
167        FROM [Soccer_Analysis_Db1].[dbo].[ketro_sa_soccer_dataset_advanced]
168        ORDER BY TotalContributions DESC;
```

100 %   ✓ No issues found

Results   Messages

	player_name	Goals	Assists	TotalContributions
1	Vusi Molefe	99	77	9977
2	Gugu Hlongwane	98	38	9838
3	Mandla Mabena	98	37	9837
4	Thabo Ndlovu	98	28	9828
5	Thabo Sithole	98	2	982
6	Khanyi Ndlovu	9	75	975
7	Mpho Mahlangu	97	4	974
8	Tumelo Dlamini	9	7	97
9	Mandla Sithole	9	7	97
10	Boitumelo Nkosi	96	54	9654