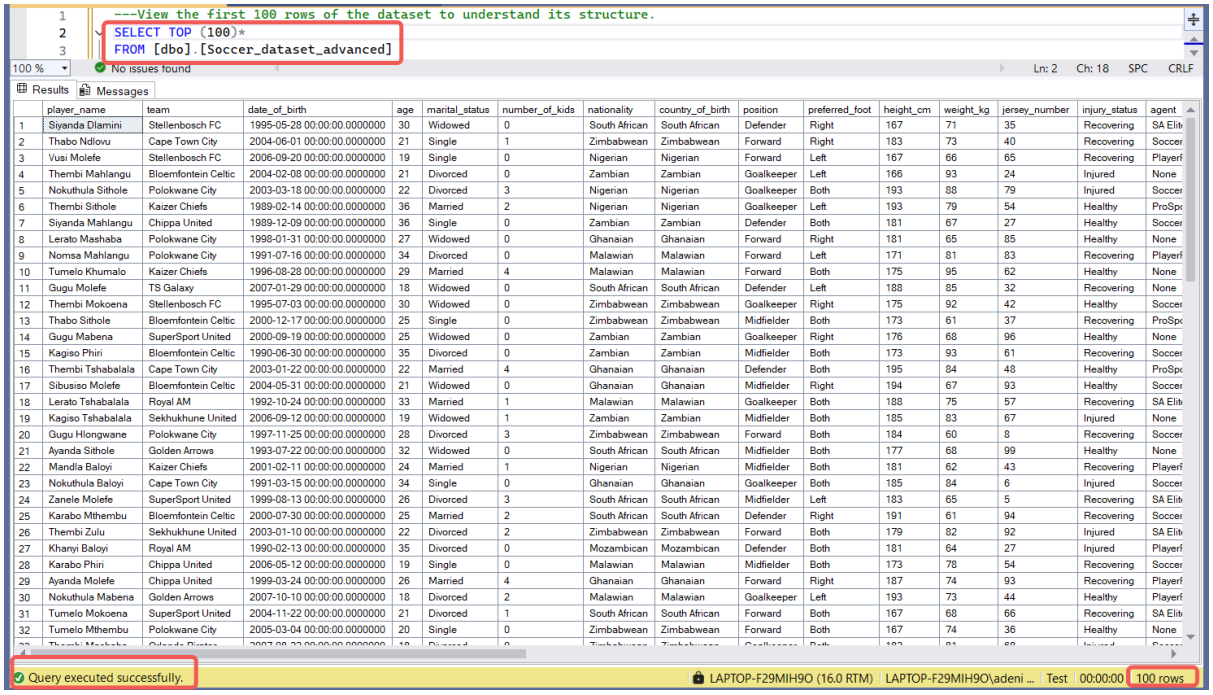
SSMS SQL EXERCISE

Q1. View the first 100 rows of the dataset to understand its structure.

ANS:



```
---View the first 100 rows of the dataset to understand its structure.
SELECT TOP (100)*
FROM [dbo].[Soccer_dataset_advanced]
```

100 % — No issues found — Ln: 2 Ch: 18 SPC CRLF

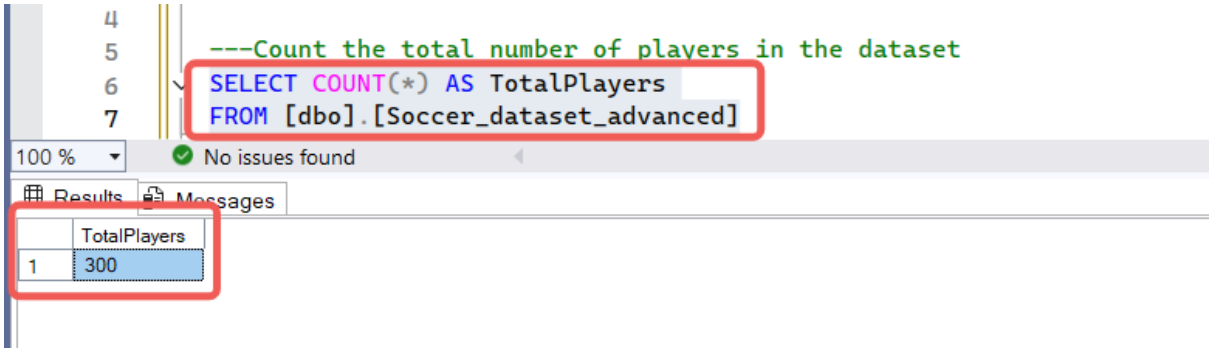
Results | Messages

	player_name	team	date_of_birth	age	marital_status	number_of_kids	nationality	country_of_birth	position	preferred_foot	height_cm	weight_kg	jersey_number	injury_status	agent
1	Siyanda Dlamini	Stellenbosch FC	1995-05-28 00:00:00.0000000	30	Widowed	0	South African	South African	Defender	Right	167	71	35	Recovering	SA Elit
2	Thabo Ndlovu	Cape Town City	2004-06-01 00:00:00.0000000	21	Single	1	Zimbabwean	Zimbabwean	Forward	Right	183	73	40	Recovering	Soccer
3	Vusi Molefe	Stellenbosch FC	2006-09-20 00:00:00.0000000	19	Single	0	Nigerian	Nigerian	Forward	Left	167	66	65	Recovering	Playerf
4	Thembi Mahlangu	Bloemfontein Celtic	2004-02-08 00:00:00.0000000	21	Divorced	0	Zambian	Zambian	Goalkeeper	Left	166	93	24	Injured	None
5	Nokuthula Sithole	Polokwane City	2003-03-18 00:00:00.0000000	22	Divorced	3	Nigerian	Nigerian	Goalkeeper	Both	193	88	79	Injured	Soccer
6	Thembi Sithole	Kaizer Chiefs	1989-02-14 00:00:00.0000000	36	Married	2	Nigerian	Nigerian	Goalkeeper	Left	193	79	54	Healthy	ProSp
7	Siyanda Mahlangu	Chippa United	1989-12-09 00:00:00.0000000	36	Single	0	Zambian	Zambian	Defender	Both	181	67	27	Healthy	Soccer
8	Lerato Mashaba	Polokwane City	1998-01-31 00:00:00.0000000	27	Widowed	0	Ghanaian	Ghanaian	Forward	Right	181	65	85	Healthy	None
9	Nomsa Mahlangu	Polokwane City	1991-07-16 00:00:00.0000000	34	Divorced	0	Malawian	Malawian	Forward	Left	171	81	83	Recovering	Playerf
10	Tumelo Khumalo	Kaizer Chiefs	1996-08-28 00:00:00.0000000	29	Married	4	Malawian	Malawian	Forward	Both	175	95	62	Healthy	None
11	Gugu Molefe	TS Galaxy	2007-01-29 00:00:00.0000000	18	Widowed	0	South African	South African	Defender	Left	188	85	32	Recovering	None
12	Thembi Mokoena	Stellenbosch FC	1995-07-03 00:00:00.0000000	30	Widowed	0	Zimbabwean	Zimbabwean	Goalkeeper	Right	175	92	42	Healthy	Soccer
13	Thabo Sithole	Bloemfontein Celtic	2000-12-17 00:00:00.0000000	25	Single	0	Zimbabwean	Zimbabwean	Midfielder	Both	173	61	37	Recovering	ProSp
14	Gugu Mabena	SuperSport United	2000-09-19 00:00:00.0000000	25	Widowed	0	Zambian	Zambian	Goalkeeper	Right	176	68	96	Healthy	None
15	Kagiso Phiri	Bloemfontein Celtic	1990-06-30 00:00:00.0000000	35	Divorced	0	Zambian	Zambian	Midfielder	Both	173	93	61	Recovering	Soccer
16	Thembi Tshabalala	Cape Town City	2003-01-22 00:00:00.0000000	22	Married	4	Ghanaian	Ghanaian	Defender	Both	195	84	48	Healthy	ProSp
17	Sibusiso Molefe	Bloemfontein Celtic	2004-05-31 00:00:00.0000000	21	Widowed	0	Ghanaian	Ghanaian	Midfielder	Right	194	67	93	Healthy	Soccer
18	Lerato Tshabalala	Royal AM	1992-10-24 00:00:00.0000000	33	Married	1	Malawian	Malawian	Goalkeeper	Both	188	75	57	Recovering	SA Elit
19	Kagiso Tshabalala	Sekhukhune United	2006-09-12 00:00:00.0000000	19	Widowed	1	Zambian	Zambian	Midfielder	Both	185	83	67	Injured	None
20	Gugu Hlongwane	Polokwane City	1997-11-25 00:00:00.0000000	28	Divorced	3	Zimbabwean	Zimbabwean	Forward	Both	184	60	8	Recovering	Soccer
21	Ayanda Sithole	Golden Arrows	1993-07-22 00:00:00.0000000	32	Widowed	0	South African	South African	Midfielder	Both	177	68	99	Healthy	None
22	Mandla Baloyi	Kaizer Chiefs	2001-02-11 00:00:00.0000000	24	Married	1	Nigerian	Nigerian	Midfielder	Both	181	62	43	Recovering	Playerf
23	Nokuthula Baloyi	Cape Town City	1991-03-15 00:00:00.0000000	34	Single	0	Ghanaian	Ghanaian	Goalkeeper	Both	185	84	6	Injured	Soccer
24	Zanele Molefe	SuperSport United	1999-08-13 00:00:00.0000000	26	Divorced	3	South African	South African	Midfielder	Left	183	65	5	Recovering	SA Elit
25	Karabo Mthembu	Bloemfontein Celtic	2000-07-30 00:00:00.0000000	25	Married	2	South African	South African	Defender	Right	191	61	94	Recovering	Soccer
26	Thembi Zulu	Sekhukhune United	2003-01-10 00:00:00.0000000	22	Divorced	2	Zimbabwean	Zimbabwean	Forward	Both	179	82	92	Injured	SA Elit
27	Khanyi Baloyi	Royal AM	1990-02-13 00:00:00.0000000	35	Divorced	0	Mozambican	Mozambican	Defender	Both	181	64	27	Injured	Playerf
28	Karabo Phiri	Chippa United	2006-05-12 00:00:00.0000000	19	Single	0	Malawian	Malawian	Midfielder	Both	173	78	54	Recovering	Soccer
29	Ayanda Molefe	Chippa United	1999-03-24 00:00:00.0000000	26	Married	4	Ghanaian	Ghanaian	Forward	Right	187	74	93	Recovering	Playerf
30	Nokuthula Mabena	Golden Arrows	2007-10-10 00:00:00.0000000	18	Divorced	2	Malawian	Malawian	Goalkeeper	Left	193	73	44	Healthy	Playerf
31	Tumelo Mokoena	SuperSport United	2004-11-22 00:00:00.0000000	21	Divorced	1	South African	South African	Forward	Both	167	68	66	Recovering	SA Elit
32	Tumelo Mthembu	Polokwane City	2005-03-04 00:00:00.0000000	20	Single	0	Zimbabwean	Zimbabwean	Forward	Both	167	74	36	Healthy	None

Query executed successfully. — LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 100 rows

Q2. Count the total number of players in the dataset.

ANS:



```
---Count the total number of players in the dataset
SELECT COUNT(*) AS TotalPlayers
FROM [dbo].[Soccer_dataset_advanced]
```

100 % — No issues found

Results | Messages

	TotalPlayers
1	300

Q3. List all unique teams in the league.

ANS:

```
SELECT DISTINCT(Team)
FROM [Test].[dbo].[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

Q4. Count how many players are in each team.

ANS:

```
---Count how many players are in each team
SELECT
    Team,
    COUNT(*) AS NumberOfPlayers
FROM [dbo].[Soccer_dataset_advanced]
GROUP BY Team;
```

100 % — No issues found — Ln: 17 Ch: 15 SPC CRLF

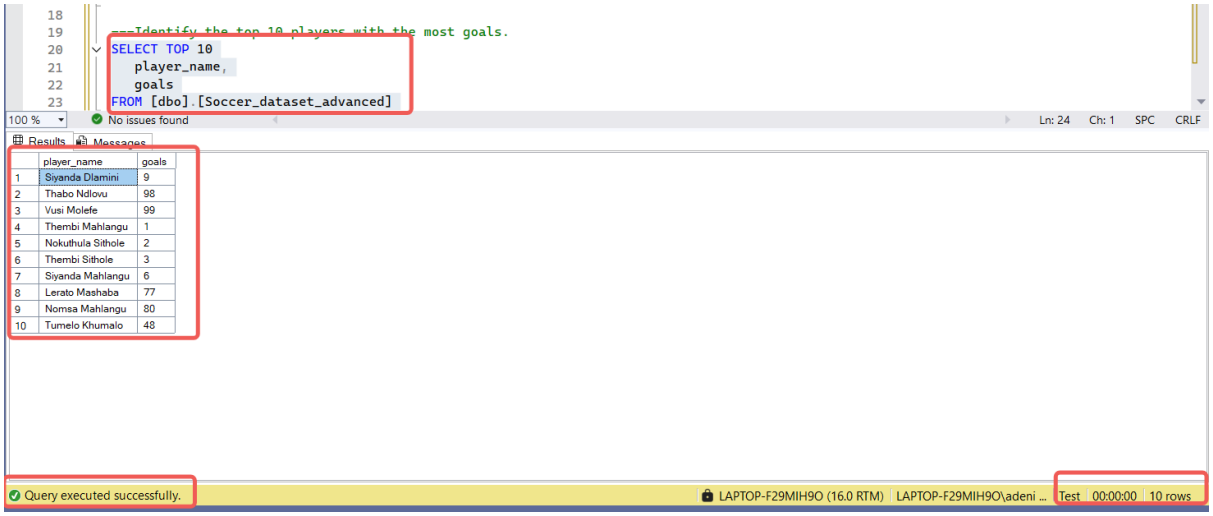
Results | Messages

	Team	NumberOfPlayers
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

Query executed successfully. — LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 16 rows

Q5. Identify the top 10 players with the most goals.

ANS:



```
18
19   ---Identify the top 10 players with the most goals.
20   SELECT TOP 10
21      player_name,
22      goals
23   FROM [dbo].[Soccer_dataset_advanced]
```

100 % | No issues found | Ln: 24 Ch: 1 SPC CRLF

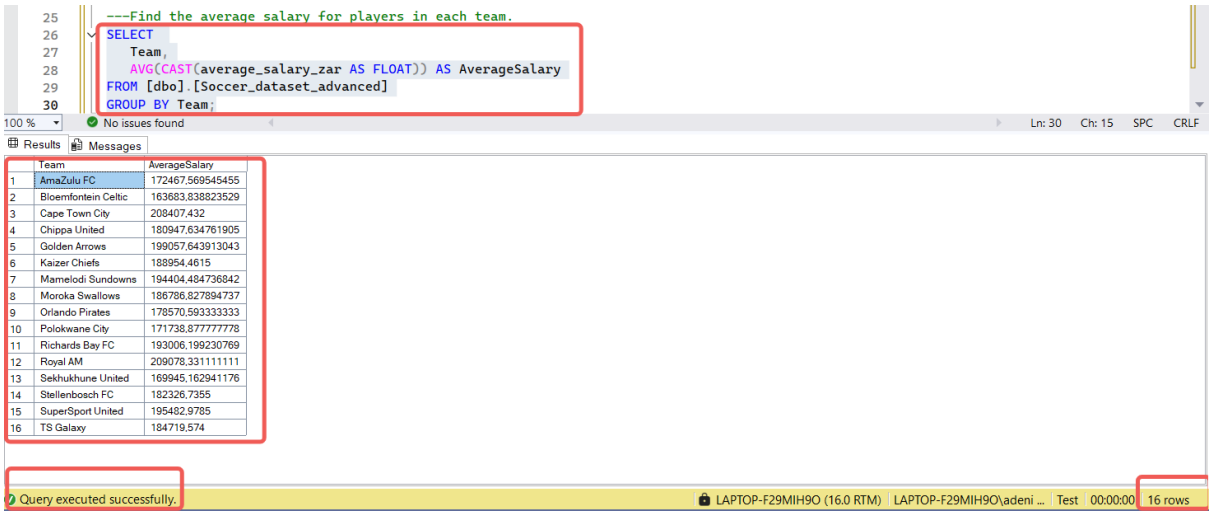
Results | Messages

	player_name	goals
1	Siyanda Dlamini	9
2	Thabo Ndlovu	98
3	Vusi Molefe	99
4	Thembi Mahlangu	1
5	Nokuthula Sithole	2
6	Thembi Sithole	3
7	Siyanda Mahlangu	6
8	Lerato Mashaba	77
9	Nomsa Mahlangu	80
10	Tumelo Khumalo	48

Query executed successfully. | LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 10 rows

Q6. Find the average salary for players in each team.

ANS:



```
25   ---Find the average salary for players in each team.
26   SELECT
27      Team,
28      AVG(CAST(average_salary_zar AS FLOAT)) AS AverageSalary
29   FROM [dbo].[Soccer_dataset_advanced]
30   GROUP BY Team;
```

100 % | No issues found | Ln: 30 Ch: 15 SPC CRLF

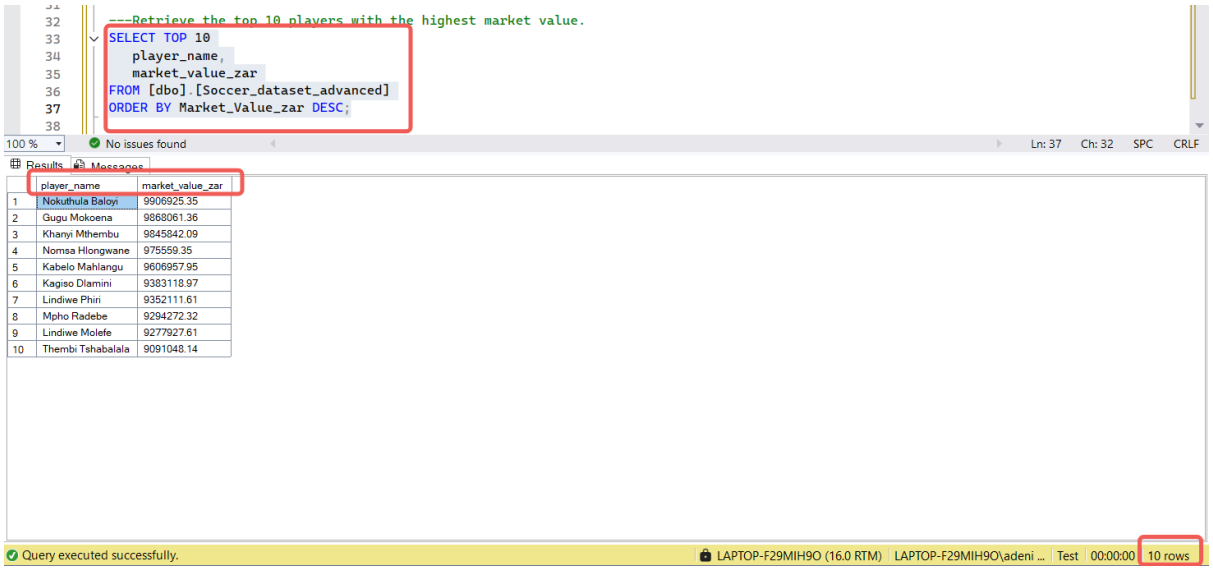
Results | Messages

	Team	AverageSalary
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

Query executed successfully. | LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 16 rows

Q7. Retrieve the top 10 players with the highest market value.

ANS:



```
---Retrieve the top 10 players with the highest market value.
SELECT TOP 10
   player_name,
   market_value_zar
FROM [dbo].[Soccer_dataset_advanced]
ORDER BY Market_Value_zar DESC;
```

No issues found — Ln: 37 Ch: 32 SPC CRLF

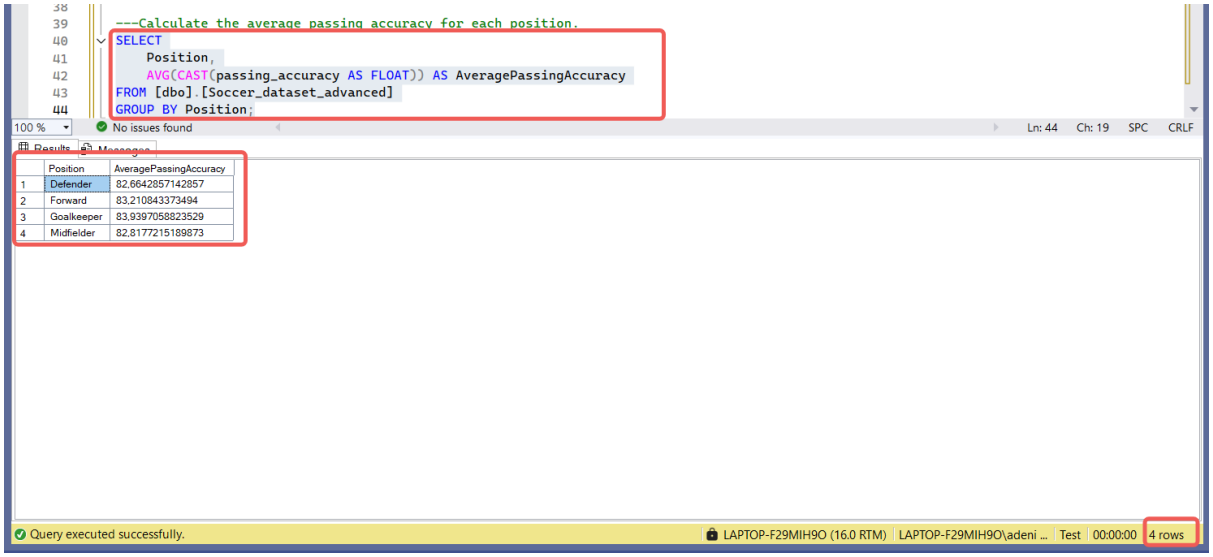
Results | Messages

	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

Query executed successfully. — LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 10 rows

Q8. Calculate the average passing accuracy for each position.

ANS:



```
---Calculate the average passing accuracy for each position.
SELECT
    Position,
    AVG(CAST(passing_accuracy AS FLOAT)) AS AveragePassingAccuracy
FROM [dbo].[Soccer_dataset_advanced]
GROUP BY Position;
```

No issues found — Ln: 44 Ch: 19 SPC CRLF

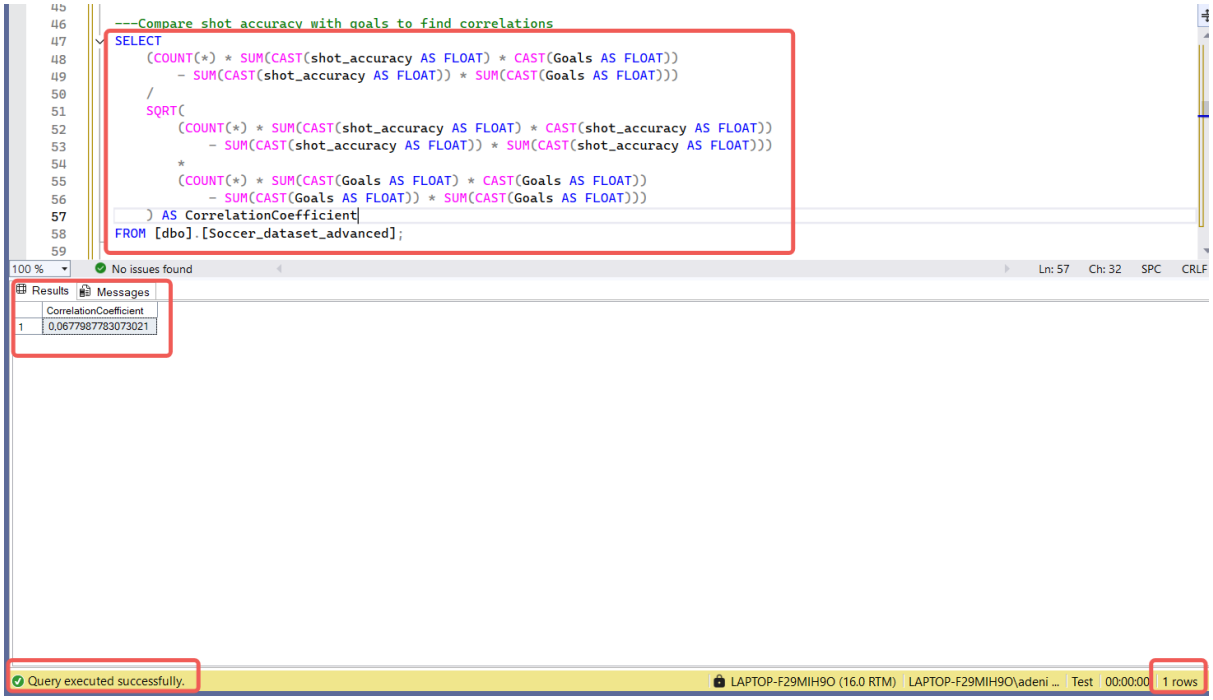
Results | Messages

	Position	AveragePassingAccuracy
1	Defender	82,6642857142857
2	Forward	83,210843373494
3	Goalkeeper	83,9397058823529
4	Midfielder	82,8177215189873

Query executed successfully. — LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 4 rows

Q9. Compare shot accuracy with goals to find correlations.

ANS:



```
---Compare shot accuracy with goals to find correlations
SELECT
    (COUNT(*) * SUM(CAST(shot_accuracy AS FLOAT) * CAST(Goals AS FLOAT))
        - SUM(CAST(shot_accuracy AS FLOAT)) * SUM(CAST(Goals AS FLOAT)))
    /
    SQRT(
        (COUNT(*) * SUM(CAST(shot_accuracy AS FLOAT) * CAST(shot_accuracy AS FLOAT))
            - SUM(CAST(shot_accuracy AS FLOAT)) * SUM(CAST(shot_accuracy AS FLOAT)))
        *
        (COUNT(*) * SUM(CAST(Goals AS FLOAT) * CAST(Goals AS FLOAT))
            - SUM(CAST(Goals AS FLOAT)) * SUM(CAST(Goals AS FLOAT)))
    ) AS CorrelationCoefficient
FROM [dbo].[Soccer_dataset_advanced];
```

100 % | No issues found | Ln: 57 Ch: 32 SPC CRLF

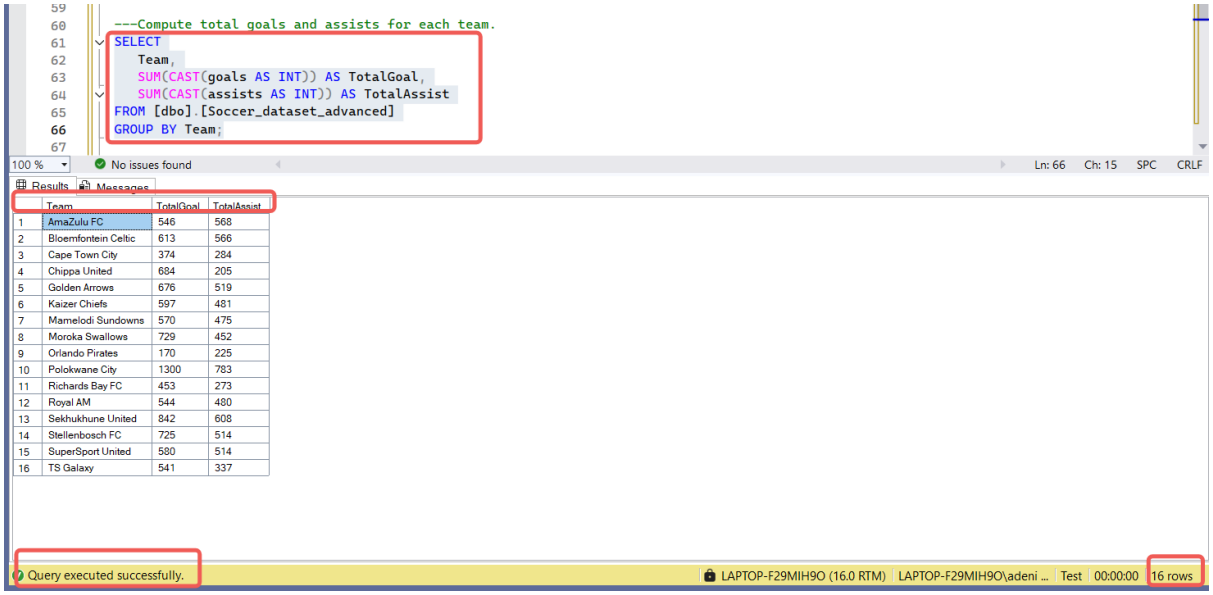
Results | Messages

	CorrelationCoefficient
1	0.0677987783073021

Query executed successfully. | LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 1 rows

Q10. Compute total goals and assists for each team.

ANS:



```
---Compute total goals and assists for each team.
SELECT
    Team,
    SUM(CAST(goals AS INT)) AS TotalGoal,
    SUM(CAST(assists AS INT)) AS TotalAssist
FROM [dbo].[Soccer_dataset_advanced]
GROUP BY Team;
```

100 % | No issues found | Ln: 66 Ch: 15 SPC CRLF

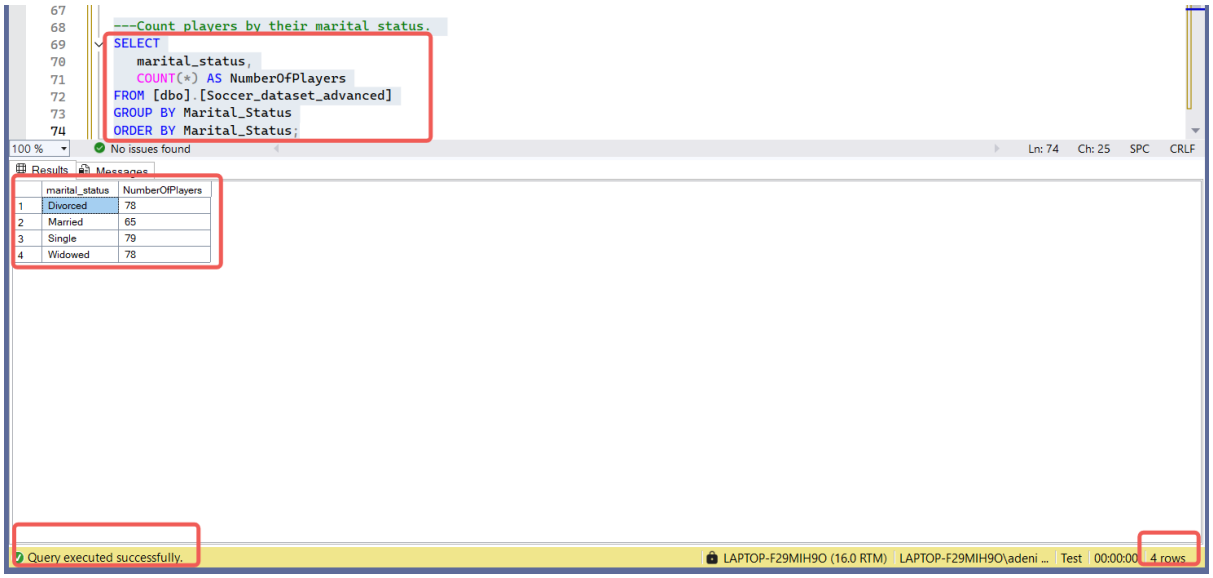
Results | Messages

	Team	TotalGoal	TotalAssist
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

Query executed successfully. | LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 16 rows

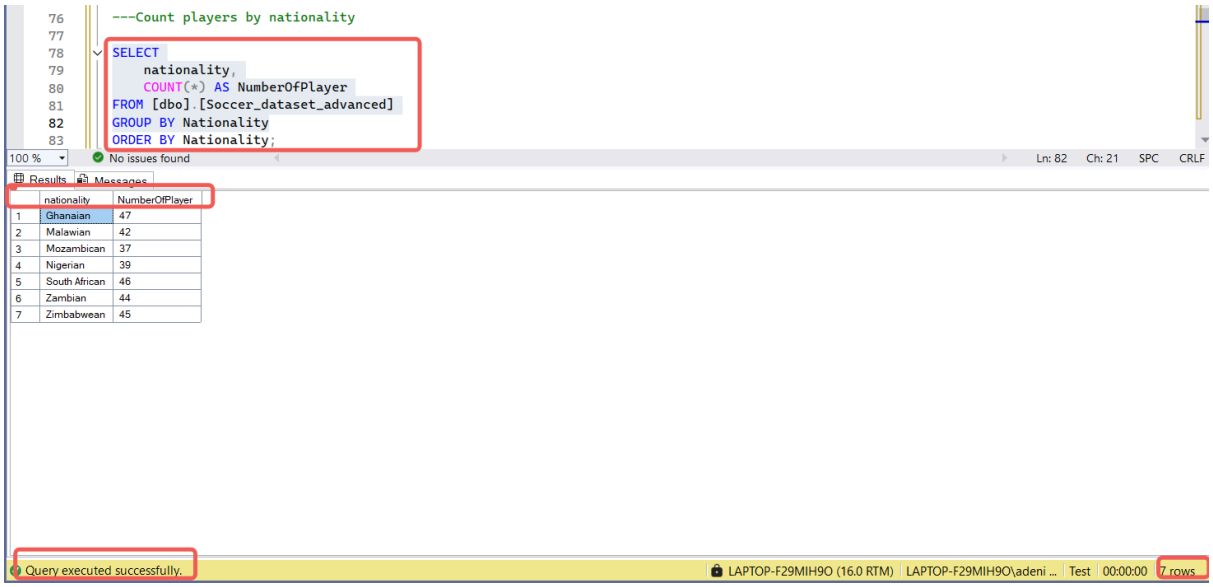
Q11. Count players by their marital status.

ANS:



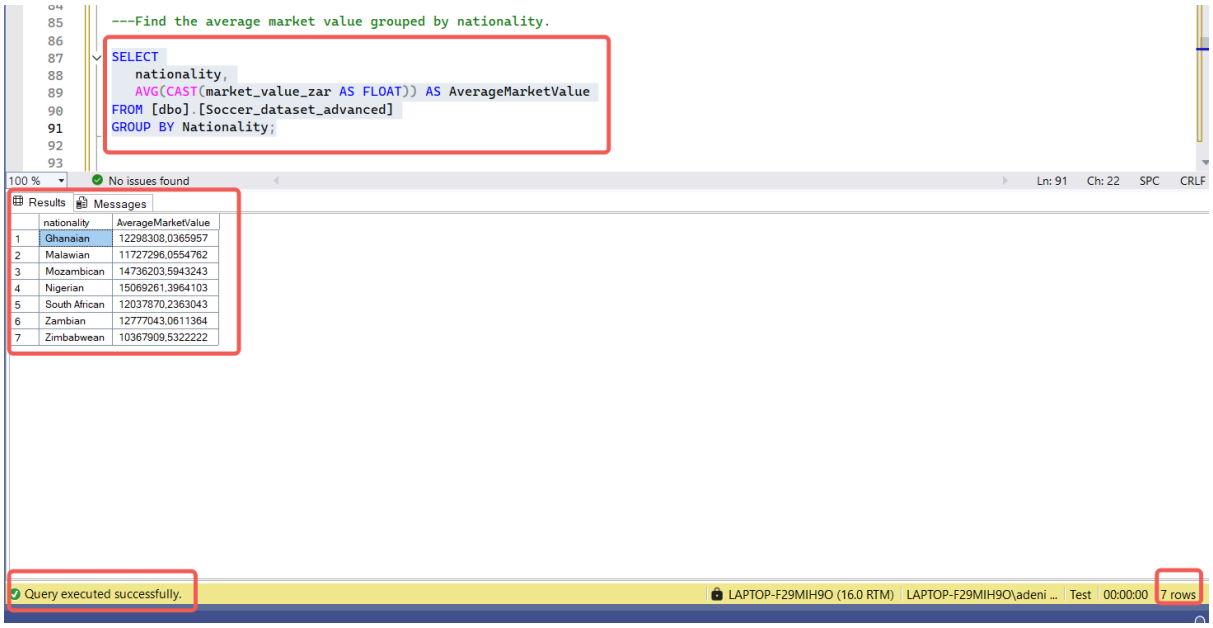
Q12. Count players by nationality.

ANS:



Q13. Find the average market value grouped by nationality.

ANS:



```
---Find the average market value grouped by nationality.

SELECT
   nationality,
   AVG(CAST(market_value_zar AS FLOAT)) AS AverageMarketValue
FROM [dbo].[Soccer_dataset_advanced]
GROUP BY Nationality;
```

100 % — No issues found — Ln: 91 Ch: 22 SPC CRLF

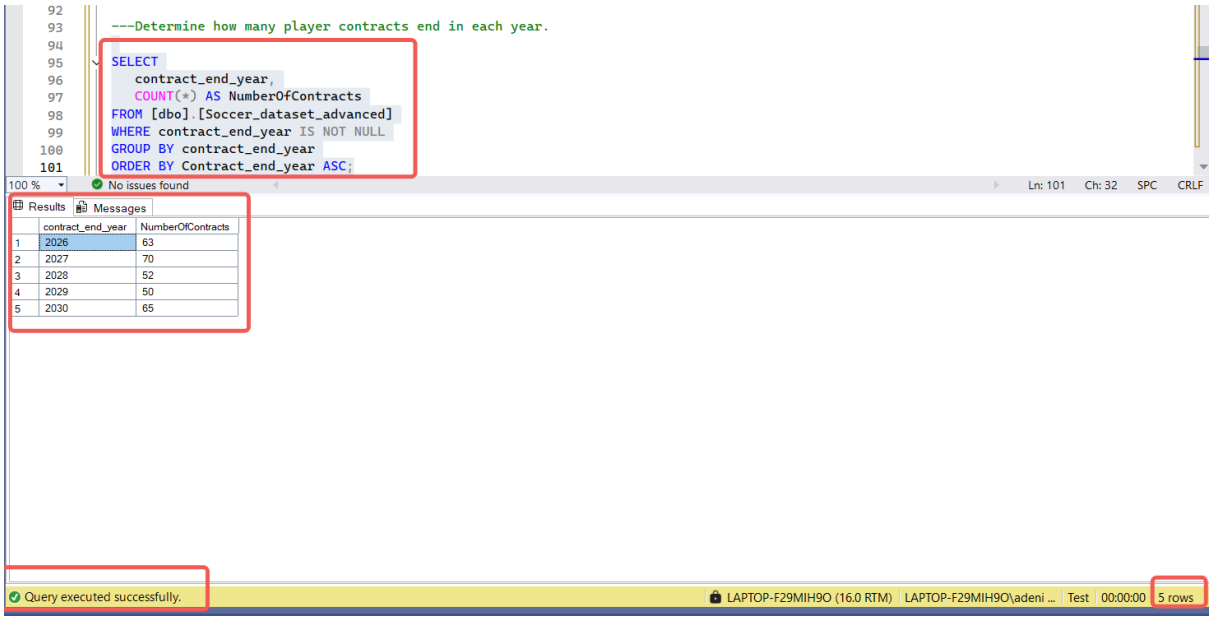
Results | Messages

	nationality	AverageMarketValue
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

Query executed successfully. — LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 7 rows

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

ANS:



```
---Determine how many player contracts end in each year.

SELECT
   contract_end_year,
   COUNT(*) AS NumberOfContracts
FROM [dbo].[Soccer_dataset_advanced]
WHERE contract_end_year IS NOT NULL
GROUP BY contract_end_year
ORDER BY Contract_end_year ASC;
```

100 % — No issues found — Ln: 101 Ch: 32 SPC CRLF

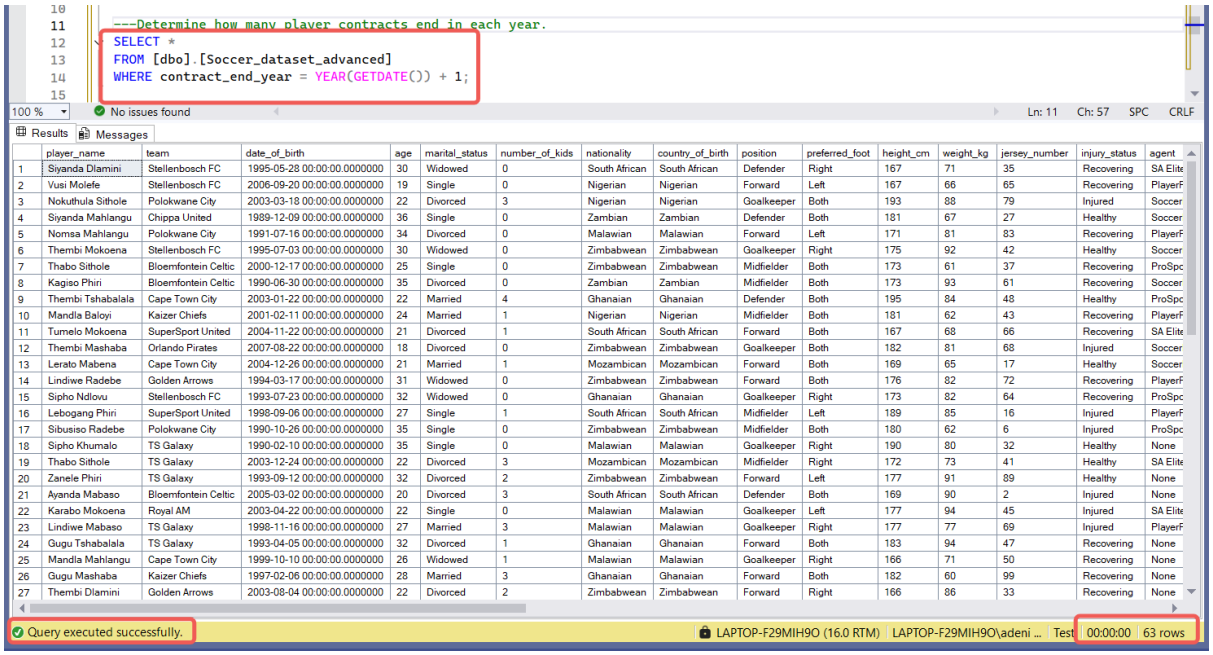
Results | Messages

	contract_end_year	NumberOfContracts
1	2026	63
2	2027	70
3	2028	52
4	2029	50
5	2030	65

Query executed successfully. — LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 5 rows

Q15. Identify players whose contracts end next year.

ANS:



```sql
---Determine how many player contracts end in each year.
SELECT *
FROM [dbo].[Soccer_dataset_advanced]
WHERE contract_end_year = YEAR(GETDATE()) + 1;
```

100 % — No issues found — Ln: 11 Ch: 57 SPC CRLF

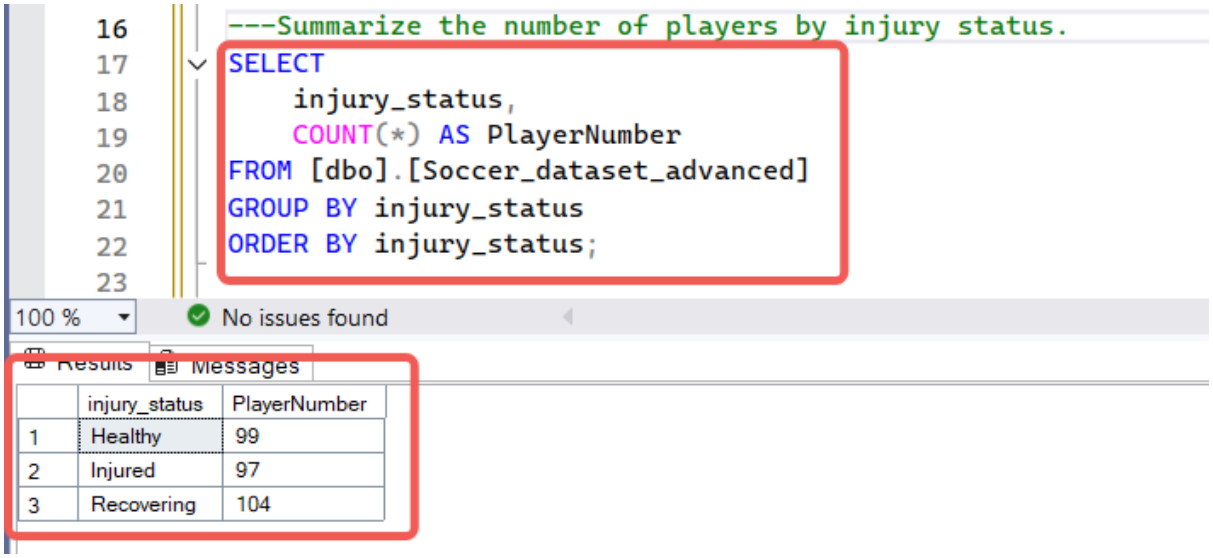
Results | Messages

	player_name	team	date_of_birth	age	marital_status	number_of_kids	nationality	country_of_birth	position	preferred_foot	height_cm	weight_kg	jersey_number	injury_status	agent
1	Siyanda Dlamini	Stellenbosch FC	1995-05-28 00:00:00.0000000	30	Widowed	0	South African	South African	Defender	Right	167	71	35	Recovering	SA Elite
2	Vusi Molefe	Stellenbosch FC	2006-09-20 00:00:00.0000000	19	Single	0	Nigerian	Nigerian	Forward	Left	167	66	65	Recovering	PlayerF
3	Nokuthula Sithole	Polokwane City	2003-03-18 00:00:00.0000000	22	Divorced	3	Nigerian	Nigerian	Goalkeeper	Both	193	88	79	Injured	Soccer
4	Siyanda Mahlangu	Chippa United	1989-12-09 00:00:00.0000000	36	Single	0	Zambian	Zambian	Defender	Both	181	67	27	Healthy	Soccer
5	Nomsa Mahlangu	Polokwane City	1991-07-16 00:00:00.0000000	34	Divorced	0	Malawian	Malawian	Forward	Left	171	81	83	Recovering	PlayerF
6	Thembi Mokoena	Stellenbosch FC	1995-07-03 00:00:00.0000000	30	Widowed	0	Zimbabwean	Zimbabwean	Goalkeeper	Right	175	92	42	Healthy	Soccer
7	Thabo Sithole	Bloemfontein Celtic	2000-12-17 00:00:00.0000000	25	Single	0	Zimbabwean	Zimbabwean	Midfielder	Both	173	61	37	Recovering	ProSpc
8	Kagiso Phiri	Bloemfontein Celtic	1990-06-30 00:00:00.0000000	35	Divorced	0	Zambian	Zambian	Midfielder	Both	173	93	61	Recovering	Soccer
9	Thembi Tshabalala	Cape Town City	2003-01-22 00:00:00.0000000	22	Married	4	Ghanaian	Ghanaian	Defender	Both	195	84	48	Healthy	ProSpc
10	Mandla Baloyi	Kaizer Chiefs	2001-02-11 00:00:00.0000000	24	Married	1	Nigerian	Nigerian	Midfielder	Both	181	62	43	Recovering	PlayerF
11	Tumelo Mokoena	SuperSport United	2004-11-22 00:00:00.0000000	21	Divorced	1	South African	South African	Forward	Both	167	68	66	Recovering	SA Elite
12	Thembi Mashaba	Orlando Pirates	2007-08-22 00:00:00.0000000	18	Divorced	0	Zimbabwean	Zimbabwean	Goalkeeper	Both	182	81	68	Injured	Soccer
13	Lerato Mabena	Cape Town City	2004-12-26 00:00:00.0000000	21	Married	1	Mozambican	Mozambican	Forward	Both	169	65	17	Healthy	Soccer
14	Lindiwe Radebe	Golden Arrows	1994-03-17 00:00:00.0000000	31	Widowed	0	Zimbabwean	Zimbabwean	Forward	Both	176	82	72	Recovering	PlayerF
15	Sipho Ndlovu	Stellenbosch FC	1993-07-23 00:00:00.0000000	32	Widowed	0	Ghanaian	Ghanaian	Goalkeeper	Right	173	82	64	Recovering	ProSpc
16	Lebogang Phiri	SuperSport United	1998-09-06 00:00:00.0000000	27	Single	1	South African	South African	Midfielder	Left	189	85	16	Injured	PlayerF
17	Sibusiso Radebe	Polokwane City	1990-10-26 00:00:00.0000000	35	Single	0	Zimbabwean	Zimbabwean	Midfielder	Both	180	62	6	Injured	ProSpc
18	Sipho Khumalo	TS Galaxy	1990-02-10 00:00:00.0000000	35	Single	0	Malawian	Malawian	Goalkeeper	Right	190	80	32	Healthy	None
19	Thabo Sithole	TS Galaxy	2003-12-24 00:00:00.0000000	22	Divorced	3	Mozambican	Mozambican	Midfielder	Right	172	73	41	Healthy	SA Elite
20	Zanele Phiri	TS Galaxy	1993-09-12 00:00:00.0000000	32	Divorced	2	Zimbabwean	Zimbabwean	Forward	Left	177	91	89	Healthy	None
21	Ayanda Mabaso	Bloemfontein Celtic	2005-03-02 00:00:00.0000000	20	Divorced	3	South African	South African	Defender	Both	169	90	2	Injured	None
22	Karabo Mokoena	Royal AM	2003-04-22 00:00:00.0000000	22	Single	0	Malawian	Malawian	Goalkeeper	Left	177	94	45	Injured	SA Elite
23	Lindiwe Mabaso	TS Galaxy	1998-11-16 00:00:00.0000000	27	Married	3	Malawian	Malawian	Goalkeeper	Right	177	77	69	Injured	PlayerF
24	Gugu Tshabalala	TS Galaxy	1993-04-05 00:00:00.0000000	32	Divorced	1	Ghanaian	Ghanaian	Forward	Both	183	94	47	Recovering	None
25	Mandla Mahlangu	Cape Town City	1999-10-10 00:00:00.0000000	26	Widowed	1	Malawian	Malawian	Goalkeeper	Right	166	71	50	Recovering	None
26	Gugu Mashaba	Kaizer Chiefs	1997-02-06 00:00:00.0000000	28	Married	3	Ghanaian	Ghanaian	Forward	Both	182	60	99	Recovering	None
27	Thembi Dlamini	Golden Arrows	2003-08-04 00:00:00.0000000	22	Divorced	2	Zimbabwean	Zimbabwean	Forward	Right	166	86	33	Recovering	None

Query executed successfully. — LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 63 rows

Q16. Summarize the number of players by injury status.

ANS:



```sql
---Summarize the number of players by injury status.
SELECT
    injury_status,
    COUNT(*) AS PlayerNumber
FROM [dbo].[Soccer_dataset_advanced]
GROUP BY injury_status
ORDER BY injury_status;
```

100 % — No issues found

Results | Messages

	injury_status	PlayerNumber
1	Healthy	99
2	Injured	97
3	Recovering	104

Q17. Calculate goals per match ratio for each player.

ANS:

```
---Calculate goals per match ratio for each player.
SELECT
    player_name,
    goals,
    matches_played,
    CAST(goals AS FLOAT) / NULLIF(CAST(matches_played AS FLOAT), 0) AS GoalsPerMatch
FROM [dbo].[Soccer_dataset_advanced];
```

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	Lerato Tshabalala	10	168	0,0595238095238095
19	Kagiso Tshabalala	36	375	0,096
20	Gugu Hlongwane	98	307	0,319218241042345
21	Ayanda Sithole	107	60	1,78333333333333
22	Mandla Baloyi	89	131	0,679389312977099
23	Nokuthula Baloyi	7	164	0,0426829268292683
24	Zanele Molefe	116	232	0,5
25	Karabo Mthembu	5	178	0,0280898876404494
26	Thembi Zulu	72	3	24
27	Khanyi Baloyi	2	208	0,00961538461538462
28	Karabo Phiri	72	356	0,202247191011236
29	Ayanda Molefe	26	221	0,117647058823529

Query executed successfully. LAPTOP-F29MIH9O (16.0 RTM) LAPTOP-F29MIH9O\adeni ... Test 00:00:00 300 rows

Q18. Count how many players are managed by each agent.

ANS:

```
---Count how many players are managed by each agent.
SELECT
    agent,
    COUNT(*) AS PlayerNumber
FROM [dbo].[Soccer_dataset_advanced]
GROUP BY agent
ORDER BY PlayerNumber DESC;
```

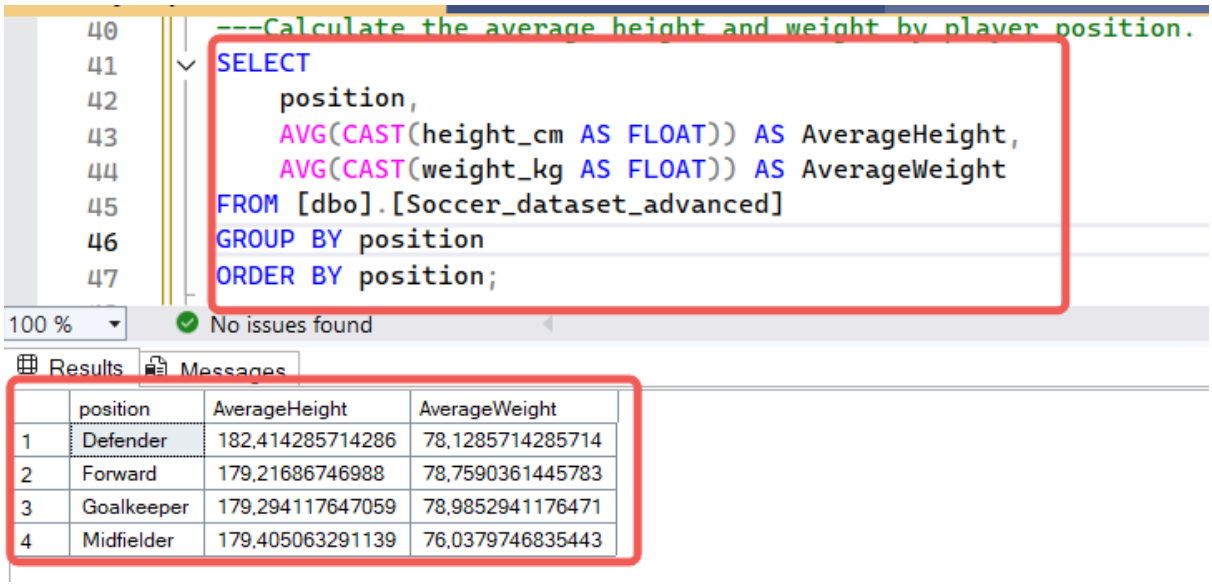
No issues found

Results | Messages

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

Q19. Calculate the average height and weight by player position.

ANS:



```
---Calculate the average height and weight by player position.
SELECT
    position,
    AVG(CAST(height_cm AS FLOAT)) AS AverageHeight,
    AVG(CAST(weight_kg AS FLOAT)) AS AverageWeight
FROM [dbo].[Soccer_dataset_advanced]
GROUP BY position
ORDER BY position;
```

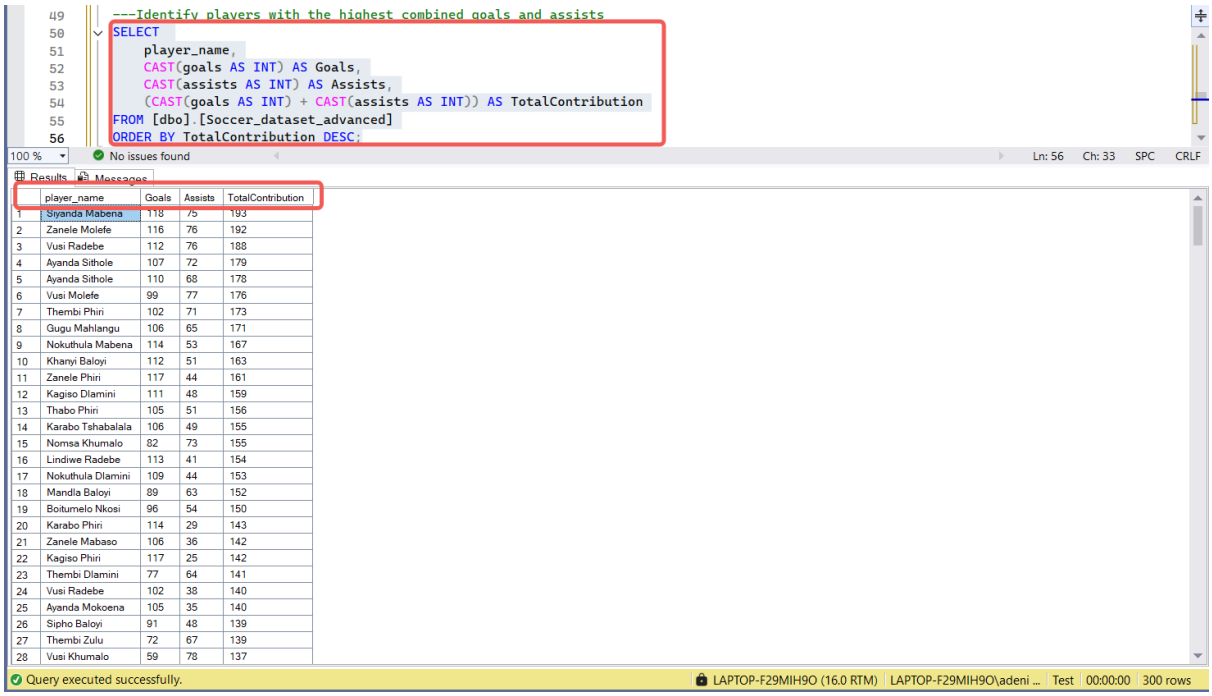
100 % — No issues found

Results | Messages

	position	AverageHeight	AverageWeight
1	Defender	182,414285714286	78,1285714285714
2	Forward	179,21686746988	78,7590361445783
3	Goalkeeper	179,294117647059	78,9852941176471
4	Midfielder	179,405063291139	76,0379746835443

Q20. Identify players with the highest combined goals and assists.

ANS:



```
---Identify players with the highest combined goals and assists
SELECT
    player_name,
    CAST(goals AS INT) AS Goals,
    CAST(assists AS INT) AS Assists,
    (CAST(goals AS INT) + CAST(assists AS INT)) AS TotalContribution
FROM [dbo].[Soccer_dataset_advanced]
ORDER BY TotalContribution DESC;
```

100 % — No issues found — Ln: 56 Ch: 33 SPC CRLF

Results | Messages

	player_name	Goals	Assists	TotalContribution
1	Siyanda Mabena	118	75	193
2	Zanele Molefe	116	76	192
3	Vusi Radebe	112	76	188
4	Ayanda Sithole	107	72	179
5	Ayanda Sithole	110	68	178
6	Vusi Molefe	99	77	176
7	Thembi Phiri	102	71	173
8	Gugu Mahlangu	106	65	171
9	Nokuthula Mabena	114	53	167
10	Khanyi Baloyi	112	51	163
11	Zanele Phiri	117	44	161
12	Kagiso Dlamini	111	48	159
13	Thabo Phiri	105	51	156
14	Karabo Tshabalala	106	49	155
15	Nomsa Khumalo	82	73	155
16	Lindiwe Radebe	113	41	154
17	Nokuthula Dlamini	109	44	153
18	Mandla Baloyi	89	63	152
19	Boitumelo Nkosi	96	54	150
20	Karabo Phiri	114	29	143
21	Zanele Mabaso	106	36	142
22	Kagiso Phiri	117	25	142
23	Thembi Dlamini	77	64	141
24	Vusi Radebe	102	38	140
25	Ayanda Mokoena	105	35	140
26	Sipho Baloyi	91	48	139
27	Thembi Zulu	72	67	139
28	Vusi Khumalo	59	78	137

Query executed successfully. — LAPTOP-F29MIH9O (16.0 RTM) | LAPTOP-F29MIH9O\adeni ... | Test | 00:00:00 | 300 rows