MADINOGE SERAKI MOTUBATSE

PRACTICAL: South African Soccer Dataset – SQL

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

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

3. List all unique teams in the league.

4. Count how many players are in each team.

```
24          -----4. Count how many players are in each team.
25          select team, count(*) as player_count
26          from[LIZA]. [dbo].[ketro_sa_soccer_dataset_advanced]
27          group by team;
28
```

177 % ✓ No issues found

Results Messages

	team	player_count
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 Sundo...	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.

```
30          -----5. Identify the top 10 players with the most goals.
31          select top 10 player_name, goals
32          from [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
33          order by goals DESC;
34
```

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Results Messages

	player_name	goals
1	Vusi Molefe	99
2	Thabo Ndlovu	98
3	Gugu Hlong...	98
4	Thabo Sithole	98
5	Mandla Ma...	98
6	Mpho Mahl...	97
7	Boitumelo N...	96
8	Mpho Rade...	92
9	Khanyi Nkosi	92
10	Sipho Phiri	91

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

```
35          -----6. Find the average salary for players in each team.
36
37          SELECT
38              player_name,
39              team,
40              AVG(cast(average_salary_zar as float)) AS avg_salary
41
42          FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
43          group by team, player_name;
44
```

177 % ✓ No issues found

Results Messages

	player_name	team	avg_salary
1	Ayanda Khumalo	Moroka Swallows	272451,65
2	Ayanda Khumalo	Royal AM	270325,23
3	Ayanda Mabaso	Bloemfontein C...	107080,09
4	Ayanda Mokoena	Polokwane City	215173,37
5	Ayanda Molefe	Chippa United	93624,79
6	Ayanda Molefe	Sekhukhune Un...	191175,09
7	Ayanda Mthem...	TS Galaxy	214320,16
8	Ayanda Sithole	AmaZulu FC	110286,96

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

```
47          -----7. Retrieve the top 10 players with the highest market value.
48
49          select top 10 player_name, market_value_zar
50          from [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
51          order by market_value_zar desc;
52
53          -----8. Calculate the average passing accuracy for each position.
```

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

8. Calculate the average passing accuracy for each position.

```
53          -----8. Calculate the average passing accuracy for each position.
54
55          select position, count(*) as avg_passing_accuracy
56          from [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
57          group by position;
58
```

	position	avg_passing_accuracy
1	Defender	70
2	Forward	83
3	Goalke...	68
4	Midfield...	79

9. Compare shot accuracy with goals to find correlations. I could not do, failed

10. Compute total goals and assists for each team.

```
60          -----10. Compute total goals and assists for each team.
61          SELECT
62              team,
63              SUM(cast(goals as int)) AS total_goals,
64              SUM(cast(assists as int)) AS total_assists
65          FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
66          GROUP BY team;
```

	team	total_goals	total_assists
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 Sundo...	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.

```
67        -----11. Count players by their marital status.
68        SELECT
69            marital_status,
70            COUNT(*) as total_player
71        FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
72        GROUP BY marital_status;
```

177 % ∨   ⊘ No issues found

Results | Messages

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

12. Count players by nationality.

```
73        -----12. Count players by nationality.
74        SELECT
75            nationality,
76            COUNT(*) as total_player
77        FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
78        GROUP BY nationality;
79
```

177 % ∨   ⊘ No issues found

Results | Messages

1	Ghanaian	47
2	Malawian	42
3	Mozam...	37
4	Nigerian	39
5	South Af...	46
6	Zambian	44
7	Zimbab...	45

13. Find the average market value grouped by nationality.

```
80        ----13. Find average market value grouped by nationality.
81        SELECT
82            nationality,
83            AVG(cast(market_value_zar as float)) AS avg_market_value
84
85        FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
86        group by nationality;
```

177 % ∨   ⊘ No issues found

Results | Messages

	nationality	avg_market_value
1	Ghanaian	12298308,0365957
2	Malawian	11727296,0554762
3	Mozam...	14736203,5943243
4	Nigerian	15069261,3964103
5	South Af...	12037870,2363043
6	Zambian	12777043,0611364
7	Zimbab...	10367909,5322222

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

```
87              ----14. Determine how many player contracts end in each year.
88                SELECT
89                  contract_end_year,
90                COUNT(distinct player_name) as numberofplayer
91              FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
92              GROUP BY contract_end_year;
```

177 %   ⌄   ✔ No issues found

⊞ Results 📄 Messages

	contract_end_year	numberofplayer
1	2026	58
2	2027	62
3	2028	48
4	2029	46
5	2030	62

15. Identify players whose contracts end next year.

```
93              -----15. Identify players whose contracts end next year.
94                SELECT player_name
95              FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
96              WHERE contract_end_year = 2026;
```

177 %   ⌄   ✔ No issues found

⊞ Results 📄 Messages

	player_name		player_name		player_name
19	Thabo Sithole	34	Sipho Mabaso	49	Khanyi Tshaba...
20	Zanele Phiri	35	Nomsa Dlamini	50	Nomsa Hlong...
21	Ayanda Mabaso	36	Lebogang Mas...	51	Mandla Sithole
22	Karabo Mokoe...	37	Sipho Mabaso	52	Thabo Mashaba
23	Lindiwe Mabaso	38	Thabo Mashaba	53	Lerato Dlamini
24	Gugu Tshabal...	39	Sipho Ngobeni	54	Lerato Tshabal...
25	Mandla Mahla...	40	Khanyi Phiri	55	Ayanda Sithole
26	Gugu Mashaba	41	Thabo Khumalo	56	Karabo Nkosi
27	Thembi Dlamini	42	Lerato Sithole	57	Karabo Mthem...
28	Vusi Radebe	43	Boitumelo Rad...	58	Nomsa Mthem...
29	Lindiwe Zulu	44	Lebogang Mas...	59	Lindiwe Zulu
30	Sipho Phiri	45	Sibusiso Ngob...	60	Vusi Phiri
31	Zanele Zulu	46	Karabo Molefe	61	Tumelo Dlamini
32	Kagiso Molefe	47	Nomsa Zulu	62	Siyanda Mabaso
33	Sipho Mashaba	48	Siyanda Radebe	63	Lindiwe Mabena

16. Summarize the number of players by injury status.

```
97               ----16. Summarize the number of players by injury status.
98
99        ⌄  select injury_status,
100             COUNT(distinct player_name) as numberofplayer
101           FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
102           GROUP BY injury_status;
```

177 %   ⌄   ✔ No issues found

⊞ Results 📄 Messages

	injury_status	numberofplayer
1	Healthy	90
2	Injured	87
3	Recovering	86

17. Calculate goals per match ratio for each player.

```
104        -----17. Calculate goals per match ratio for each player.
105    []     SELECT player_name,goals,matches_played,
106        CAST(goals AS FLOAT) / NULLIF(matches_played, 0) AS goals_per_match
107    []  FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced];
108
```

177 %   ✓   ● No issues found

Results Messages

	player_name	goals	matches_played	goals_per_match
1	Siyanda Dlamini	9	53	0,169811320754717
2	Thabo Ndlovu	98	272	0,360294117647059
3	Vusi Molefe	99	398	0,248743718592965
4	Thembi Mahla...	1	135	0,0074074074074...
5	Nokuthula Sith...	2	116	0,0172413793103...
6	Thembi Sithole	3	279	0,010752688172043
7	Siyanda Mahla...	6	18	0,333333333333333
8	Lerato Mashaba	77	241	0,319502074688797
9	Nomsa Mahla...	80	322	0,248447204968944
10	Tumelo Khum...	48	252	0,19047619047619
11	Gugu Molefe	7	379	0,0184696569920...
12	Thembi Mokoe...	1	296	0,0033783783783...
13	Thabo Sithole	14	229	0,0611353711790...
14	Gugu Mabena	4	155	0,0258064516129...
15	Kagiso Phiri	41	175	0,234285714285714
16	Thembi Tshab...	7	324	0,0216049382716...
17	Sibusiso Molefe	48	349	0,137535816618911

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

```
109        -----18. Count how many players are managed by each agent.
110    ∨   SELECT
111            Agent,
112            COUNT(Player_name) AS NumberOfPlayers
113        FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
114        Group by agent
115        ORDER BY NumberOfPlayers DESC;
```

177 %   ✓   ● No issues found

Results Messages

	Agent	NumberOfPlayers
1	PlayerFirst	63
2	ProSport	62
3	None	62
4	SoccerLi...	62
5	SA Elite ...	51

19. Calculate average height and weight by player position.

```
117        ----19. Calculate average height and weight by player position.
118     SELECT
119         Position,
120        AVG(Height_cm) AS Average_Height,
121        AVG (Weight_kg) AS AverageWeight,
122        COUNT(*) AS NumberOfPlayers
123     FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
124     GROUP BY POSITION
125     ORDER BY Position;
```

177 %   ✓   ● No issues found

Results Messages

	Position	Average_Height	AverageWeight	NumberOfPlayers
1	Defender	182	78	70
2	Forward	179	78	83
3	Goalke...	179	78	68
4	Midfield...	179	76	79

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

```
126          ----20. Identify players with the highest combined goals and assists.
127
128          SELECT top 5 player_name,
129              goals,
130              assists,
131              (goals + assists) AS total_contributions
132
133          FROM [LIZA].[dbo].[ketro_sa_soccer_dataset_advanced]
134          ORDER BY total_contributions DESC;
```

	player_name	goals	assists	total_contributions
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