

TUMMY MABUZA

Practical exercise: Soccer SQL Questions(Microsoft Server)

1.

```
1  --View the first 100 rows of the dataset to understand its structure.
2  SELECT TOP 100*
3  FROM [dbo].[ketrosoccerdatasetadvanced]
4  --2.Count the total number of players in the dataset.
5  SELECT COUNT(*) AS total_players
6  FROM [dbo].[ketrosoccerdatasetadvanced]
7  --3.List all unique teams in the league.
8  SELECT DISTINCT team
9  FROM [dbo].[ketrosoccerdatasetadvanced]
10 ORDER BY team;
11 --4. Count how many players are in each team.
12 SELECT team
```

100 % 1 0 1 0 Ln: 3, Ch: 46 (63 chars, 2 lines) SPC CRLF Windows 12

Results Messages

	player_name	team	date_of_birth	age	marital_status	number_of_kids	nationality	country_of_birth	position
1	Siyanda Dlamini	Stellenbosch FC	1995-05-28	30	Widowed	0	South African	South African	Defende
2	Thabo Ndlovu	Cape Town City	2004-06-01	21	Single	1	Zimbabwean	Zimbabwean	Forward
3	Vusi Molefe	Stellenbosch FC	2006-09-20	19	Single	0	Nigerian	Nigerian	Forward
4	Thembi Mahlangu	Bloemfontein Celtic	2004-02-08	21	Divorced	0	Zambian	Zambian	Goalkee
5	Nokuthula Sithole	Polokwane City	2003-03-18	22	Divorced	3	Nigerian	Nigerian	Goalkee
6	Thembi Sithole	Kaizer Chiefs	1989-02-14	36	Married	2	Nigerian	Nigerian	Goalkee
7	Siyanda Mahlangu	Chippa United	1989-12-09	36	Single	0	Zambian	Zambian	Defende
8	Lerato Mashaba	Polokwane City	1998-01-31	27	Widowed	0	Ghanaian	Ghanaian	Forward

2.

```
4  --2.Count the total number of players in the dataset.
5  SELECT COUNT(*) AS total_players
6  FROM [dbo].[ketrosoccerdatasetadvanced]
7  --3.List all unique teams in the league.
8  SELECT DISTINCT team
9  FROM [dbo].[ketrosoccerdatasetadvanced]
10 ORDER BY team;
11 --4. Count how many players are in each team.
12 SELECT team
```

100 % 1 0 1 0 Ln: 7, Ch: 1 (81 chars, 2 lines) SPC

Results Messages Client Statistics

	total_players
1	300

3.

```
7  --3.List all unique teams in the league.
8  SELECT DISTINCT team
9  FROM [dbo].[ketrosoccerdatasetadvanced]
10 ORDER BY team;
11 --4. Count how many players are in each team.
12 SELECT team,
13        COUNT(*) AS players_per_team
14 FROM [dbo].[ketrosoccerdatasetadvanced]
15 GROUP BY team
16 ORDER BY players_per_team DESC;
17 --5. Identify the top 10 players with the most goals.
18 SELECT TOP 10 player_name
```

100 % 1 0 1 0 Ln: 8, Ch: 1 (83 chars, 3 lines) SPC

Results Messages Client Statistics

	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

4.

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11  --4. Count how many players are in each team.
12  SELECT team,
13         COUNT(*) AS players_per_team
14  FROM [dbo].[ketrosoccerdataset_advanced]
15  GROUP BY team
16  ORDER BY players_per_team DESC;
17  --5. Identify the top 10 players with the most goals.
18  SELECT TOP 10 player_name,
19             team,
20             goals
21  FROM [dbo].[ketrosoccerdataset_advanced]

```

100 % 1 0 Ln: 17, Ch: 1 (163 chars, 5 lines)

	team	players_per_team
1	Polokwane City	27
2	Golden Arrows	23
3	AmaZulu FC	22
4	Chippa United	21
5	Stellenbosch FC	20
6	SuperSport United	20
7	TS Galaxy	20
8	Kaizer Chiefs	20
9	Mamelodi Sundowns	19

5.

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16  ORDER BY players_per_team DESC;
17  --5. Identify the top 10 players with the most goals.
18  SELECT TOP 10 player_name,
19             team,
20             goals
21  FROM [dbo].[ketrosoccerdataset_advanced]
22  ORDER BY goals DESC;
23  --6. Find the average salary for players in each team.
24  SELECT team

```

100 % 1 0 Ln: 22, Ch: 27 (133 chars, 5 lines) SPC CRL

	player_name	team	goals
1	Siyanda Mabena	Sekhukhune United	118
2	Kagiso Phiri	Richards Bay FC	117
3	Zanele Phiri	TS Galaxy	117
4	Zanele Molefe	SuperSport United	116
5	Nokuthula Mabena	SuperSport United	114
6	Lindiwe Molefe	Chippa United	114
7	Nokuthula Mthembu	Mamelodi Sundowns	114
8	Karabo Phiri	Chippa United	114
9	Lindiwe Radebe	Chippa United	113

6.

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23  --6. Find the average salary for players in each team.
24  SELECT team,
25         AVG(salary_zar) AS avg_salary
26  FROM [dbo].[ketrosoccerdataset_advanced]
27  GROUP BY team
28  ORDER BY avg_salary DESC;
29  --7. Retrieve the top 10 players with the highest market value.
30  SELECT TOP 10 player_name

```

100 % 1 0 Ln: 28, Ch: 30 (156 chars, 5 lines)

	team	avg_salary
1	Royal AM	209078.330729167
2	Cape Town City	208407.431770833
3	Golden Arrows	199057.643851902
4	SuperSport United	195482.980664062
5	Mamelodi Sundowns	194404.484375
6	Richards Bay FC	193006.200270433
7	Kaizer Chiefs	188954.461621094
8	Moroka Swallows	186786.828330592
9	TS Galaxy	184719.574609375

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29  --7. Retrieve the top 10 players with the highest market value.
30  SELECT TOP 10 player_name,
31                team,
32                market_value_zar
33  FROM [dbo].[ketro_sa_soccer_dataset_advanced]
34  ORDER BY market_value_zar;
35  --8. Calculate the average passing accuracy for each position.

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100 % 2 0 Ln: 35, Ch: 1 (230 chars, 6 lines) SPC CRLF Window

Results Messages Client Statistics

	player_name	team	market_value_zar
1	Nomsa Dlamini	Kaizer Chiefs	557228.4375
2	Boitumelo Mabaso	AmaZulu FC	707853.8125
3	Sipho Radebe	Cape Town City	729981.875
4	Lebogang Mashaba	Stellenbosch FC	791604.8125
5	Nomsa Radebe	Kaizer Chiefs	818906.75
6	Nomsa Khumalo	Moroka Swallows	849179.5
7	Nomsa Hlongwane	Golden Arrows	975559.375
8	Mpho Zulu	TS Galaxy	1061705.375
9	Tumelo Zulu	AmaZulu FC	1083334.625

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35  --8. Calculate the average passing accuracy for each position.
36  SELECT position,
37          AVG(passing_accuracy) AS avg_passing_accuracy
38  FROM [dbo].[ketro_sa_soccer_dataset_advanced]
39  GROUP BY position
40  ORDER BY avg_passing_accuracy;
41
42  --9. Compare shot accuracy with goals to find correlations.
43  SELECT player_name,
44          team,

```

100 % No issues found Ln: 35, Ch: 1 (247 chars, 6 lines) SPC CRLF Windows

Results Messages Client Statistics

	position	avg_passing_accuracy
1	Defender	82.6642859322684
2	Midfielder	82.817721596247
3	Forward	83.210843373494
4	Goalkeeper	83.9397055682014

9.

```

42  --9. Compare shot accuracy with goals to find correlations.
43  SELECT player_name,
44          team,
45          goals,
46          shot_accuracy
47  FROM [dbo].[ketro_sa_soccer_dataset_advanced]
48  ORDER BY shot_accuracy DESC;
49  --10. Compute total goals and assists for each team.
50  SELECT team,

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100 % 1 0 Ln: 49, Ch: 1 (217 chars, 7 lines) SPC CRLF Wir

Results Messages Client Statistics

	player_name	team	goals	shot_accuracy
1	Mandla Baloyi	Cape Town City	4	84.9000015258789
2	Nomsa Molefe	SuperSport United	1	84.9000015258789
3	Lindiwe Molefe	Chippa United	114	84.9000015258789
4	Thembi Mashaba	Orlando Pirates	4	84.8000030517578
5	Thabo Phiri	Moroka Swallows	105	84.6999969482422
6	Sipho Baloyi	Polokwane City	91	84.5999984741211
7	Sibusiso Radebe	Polokwane City	36	84.5
8	Mpho Hlongwane	SuperSport United	6	84.4000015258789
9	Sipho Mabaso	SuperSport United	4	84.0999984741211

10.

```
49  --10. Compute total goals and assists for each team.
50  SELECT team,
51         SUM(goals) AS goals_scored,
52         SUM(assists) AS total_assists
53  FROM [dbo].[ketrosoccerdataset_advanced]
54  GROUP BY team
55  ORDER BY goals_scored DESC;
56  --11. Count players by their marital status.
57  SELECT marital_status,
58         COUNT(*) AS total_players
59  FROM [dbo].[ketrosoccerdataset_advanced]
```

100 % 1 0 Ln: 56, Ch: 1 (232 chars, 7 lines) SPC

Results Messages Client Statistics

	team	goals_scored	total_assists
1	Polokwane City	1300	783
2	Sekhukhune United	842	608
3	Moroka Swallows	729	452
4	Stellenbosch FC	725	514
5	Chippa United	684	205
6	Golden Arrows	676	519
7	Bloemfontein Celtic	613	566
8	Kaizer Chiefs	597	481
9	SuperSport United	580	514

11.

```
56  --11. Count players by their marital status.
57  SELECT marital_status,
58         COUNT(*) AS total_players
59  FROM [dbo].[ketrosoccerdataset_advanced]
60  GROUP BY marital_status
61  ORDER BY total_players;
62  --12. Count players by nationality.
63  SELECT nationality,
64         COUNT(*) AS players_count
65  FROM [dbo].[ketrosoccerdataset_advanced]
```

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Results Messages Client Statistics

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

12.

```
62  --12. Count players by nationality.
63  SELECT nationality,
64         COUNT(*) AS players_count
65  FROM [dbo].[ketrosoccerdataset_advanced]
66  GROUP BY nationality
67  ORDER BY players_count;
68  --13. Find average market value grouped by nationality.
69  SELECT nationality,
70         AVG(market_value_zar) AS avg_market_value
71  FROM [dbo].[ketrosoccerdataset_advanced]
```

100 % 1 0 Ln: 67, Ch: 27 (

Results Messages Client Statistics

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

13.

```
68 --13. Find average market value grouped by nationality.
69 SELECT nationality,
70        AVG(market_value_zar) AS avg_market_value
71 FROM [dbo].[ketro_sa_soccer_dataset_advanced]
72 GROUP BY nationality
73 ORDER BY avg_market_value;
74 --14. Determine how many player contracts end in each year.
75 SELECT contract_end_year,
76        COUNT(*) AS players_with_contract_end
77 FROM [dbo].[ketro_sa_soccer_dataset_advanced]
```

100 % 1 0 Ln: 73, Ch: 29 (227 chars, 6 lines) SPC CRLF Windo

Results Messages Client Statistics

	nationality	avg_market_value
1	Zimbabwean	10367909.4708333
2	Malawian	11727296.014881
3	South African	12037870.1983696
4	Ghanaian	12298308.0079787
5	Zambian	12777043.0852273
6	Mozambican	14736203.4746622
7	Nigerian	15069261.3477564

14.

```
74 --14. Determine how many player contracts end in each year.
75 SELECT contract_end_year,
76        COUNT(*) AS players_with_contract_end
77 FROM [dbo].[ketro_sa_soccer_dataset_advanced]
78 GROUP BY contract_end_year
79 ORDER BY contract_end_year;
80 --15. Identify players whose contracts end next year.
```

100 % 1 0 Ln: 79, Ch: 31 (243 c

Results Messages Client Statistics

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

15.

```
80 --15. Identify players whose contracts end next year.
81 SELECT player_name,
82        team,
83        contract_end_year
84 FROM [dbo].[ketro_sa_soccer_dataset_advanced]
85 WHERE contract_end_year='2026';
86 --16. Summarize the number of players by injury status.
87 SELECT injury_status,
88        COUNT(*) AS number_of_players
89 FROM [dbo].[ketro_sa_soccer_dataset_advanced]
90 GROUP BY injury_status;
```

100 % 1 0 Ln: 85, Ch: 35 (201 chars, 6 lines) SPC

Results Messages Client Statistics

	player_name	team	contract_end_year
1	Siyanda Dlamini	Stellenbosch FC	2026
2	Vusi Molefe	Stellenbosch FC	2026
3	Nokuthula Sithole	Polokwane City	2026
4	Siyanda Mahlangu	Chippa United	2026
5	Nomsa Mahlangu	Polokwane City	2026
6	Thembi Mokoena	Stellenbosch FC	2026
7	Thabo Sithole	Bloemfontein Celtic	2026
8	Kagiso Phiri	Bloemfontein Celtic	2026
9	Thembi Tshabalala	Cape Town City	2026

16.

```

86  --16. Summarize the number of players by injury status.
87  SELECT injury_status,
88          COUNT(*) AS number_of_players
89  FROM [dbo].[ketro_sa_soccer_dataset_advanced]
90  GROUP BY injury_status;
91
92  --17. Calculate goals per match ratio for each player.
93  SELECT player_name,
94          goals,
95          matches_played,
96          ROUND(goals/NULLIF(matches_played,0),2) AS goals_per

```

100 % 1 0 1 0 Ln: 91, Ch: 1

Results Messages Client Statistics

	injury_status	number_of_players
1	Healthy	99
2	Injured	97
3	Recovering	104

17.

```

92  --17. Calculate goals per match ratio for each player.
93  SELECT player_name,
94          goals,
95          matches_played,
96          ROUND(goals/NULLIF(matches_played,0),2) AS goals_per_match_ratio
97  FROM [dbo].[ketro_sa_soccer_dataset_advanced];
98
99  --18. Count how many players are managed by each agent.
100 SELECT agent,
101         COUNT(*) AS number_of_players
102 FROM [dbo].[ketro_sa_soccer_dataset_advanced]

```

100 % 1 0 1 0 Ln: 97, Ch: 50 (235 chars, 6 line)

Results Messages Client Statistics

	player_name	goals	matches_played	goals_per_match_ratio
1	Siyanda Dlamini	9	53	0
2	Thabo Ndlovu	98	272	0
3	Vusi Molefe	99	398	0
4	Thembi Mahlangu	1	135	0
5	Nokuthula Sithole	2	116	0
6	Thembi Sithole	3	279	0
7	Siyanda Mahlangu	6	18	0
8	Lerato Mashaba	77	241	0
9	Nomsa Mahlangu	80	322	0

18.

```
99      --18. Count how many players are managed by each agent.
100     SELECT agent,
101            COUNT(*) AS number_of_players
102     FROM [dbo].[ketro_sa_soccer_dataset_advanced]
103     GROUP BY agent
104     ORDER BY number_of_players;
105     --19. Calculate average height and weight by player position.
106     SELECT position,
107            AVG(height_cm) AS avg_height_cm,
108            AVG(weight_kg) AS avg_weight_kg
```

100 % 1 0 Ln: 105, Ch: 1 (210 chars)

Results Messages Client Statistics

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

19.

```
105     --19. Calculate average height and weight by player position.
106     SELECT position,
107            AVG(height_cm) AS avg_height_cm,
108            AVG(weight_kg) AS avg_weight_kg
109     FROM [dbo].[ketro_sa_soccer_dataset_advanced]
110     GROUP BY position
111     ORDER BY position;
112     --20. Identify players with the highest combined goals and assists.
113     SELECT TOP 10
114            player_name
```

100 % 1 0 Ln: 111, Ch: 21 (247 chars, 7 lines)

Results Messages Client Statistics

	position	avg_height_cm	avg_weight_kg
1	Defender	182	78
2	Forward	179	78
3	Goalkeeper	179	78
4	Midfielder	179	76

20.

```
112 --20. Identify players with the highest combined goals and assists.
113 SELECT TOP 10
114     player_name,
115     team,
116     goals,
117     assists,
118     (goals+assists) AS total_contribution
119 FROM [dbo].[ketro_sa_soccer_dataset_advanced]
120 ORDER BY total_contribution DESC
```

100 % 1 0 Ln: 120, Ch: 38 (305 chars, 9 lines) SPC CI

Results Messages Client Statistics

	player_name	team	goals	assists	total_contribution
1	Siyanda Mabena	Sekhukhune United	118	75	193
2	Zanele Molefe	SuperSport United	116	76	192
3	Vusi Radebe	Stellenbosch FC	112	76	188
4	Ayanda Sithole	Golden Arrows	107	72	179
5	Ayanda Sithole	Bloemfontein Celtic	110	68	178
6	Vusi Molefe	Stellenbosch FC	99	77	176
7	Thembi Phiri	Royal AM	102	71	173
8	Gugu Mahlangu	Bloemfontein Celtic	106	65	171
9	Nokuthula Mabena	SuperSport United	114	53	167