

1

Object Explorer SQLQuery1.aspx...shidzwa (60) * = X

Connect -> DESKTOP-ZECUGKC\SQLEXPRESS (SQL Server 15.0.20 =)

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

2 select top 100 * from [dbo].[ketro_sa_soccer_dataset_advanced]

Results Messages

No issues found

Player	Team	date_of_birth	age	marital_status	number_of_kids	nationality	country_of_birth	position	preferred_foot	height_cm	weight_kg	injury_number	injury_status	agent	matches_played	minutes_played	goals
1 Sipanda Olimpi	Stellenbosch FC	1995-05-28 00:00:00.0000000	30	Widowed	0	South African	South African	Defender	Right	167	71	35	Recovering	SA Elite Agents	53	2650	9
2 Thabo Ndlovu	Cape Town City	2004-05-01 00:00:00.0000000	21	Single	1	Zimbabwean	Zimbabwean	Forward	Right	183	73	40	Recovering	SoccerLink Africa	272	23120	98
3 Vusi Molefe	Stellenbosch FC	2006-09-20 00:00:00.0000000	19	Single	0	Nigerian	Nigerian	Forward	Left	167	66	65	Recovering	PlayerFirst	368	21690	99
4 Thembu Mabungu	Bloemfontein Celtic	2004-03-16 00:00:00.0000000	21	Divorced	0	Zambian	Zambian	Goalkeeper	Left	166	93	24	Injured	None	135	7665	1
5 Thabo Sibole	Bloemfontein Celtic	1995-03-16 00:00:00.0000000	22	Married	3	Nigerian	Nigerian	Goalkeeper	Left	169	68	79	Injured	SoccerLink Africa	15	6031	2
6 Thembu Sisulu	Kaizer Chiefs	1989-02-14 00:00:00.0000000	36	Married	2	Nigerian	Nigerian	Goalkeeper	Left	193	79	54	Healthy	ProSport	279	18135	3
7 Sipanda Mahlungu	Chippa United	1989-12-09 00:00:00.0000000	36	Single	0	Zambian	Zambian	Defender	Both	181	67	27	Healthy	SoccerLink Africa	18	1224	6
8 Lerato Mashaba	Pohokwe City	1988-01-31 00:00:00.0000000	27	Widowed	0	Ghananian	Ghananian	Forward	Right	181	65	85	Healthy	None	241	19521	77
9 Hama Mahlungu	Pohokwe City	1991-07-16 00:00:00.0000000	34	Divorced	0	Malawian	Malawian	Forward	Left	171	81	83	Recovering	PlayerFirst	322	28860	80
10 Sipanda Tshabalala	Orlando Pirates	1990-01-01 00:00:00.0000000	34	Divorced	4	Malawian	Malawian	Defender	Left	179	65	62	Healthy	None	252	20569	48
11 Gugule Molefe	Ts Galo	2007-07-26 00:00:00.0000000	18	Widowed	0	South African	South African	Defender	Left	168	65	32	Recovering	None	378	30320	7
12 Thembu Mabungu	Stellenbosch FC	1995-07-03 00:00:00.0000000	30	Widowed	0	Zimbabwean	Zimbabwean	Goalkeeper	Right	175	92	42	Healthy	SoccerLink Africa	296	16872	1
13 Thabo Sibole	Bloemfontein Celtic	2000-12-17 00:00:00.0000000	25	Single	0	Zimbabwean	Zimbabwean	Midfielder	Both	173	61	37	Recovering	ProSport	229	19923	14
14 Gugule Molefe	SuperSport United	2000-08-19 00:00:00.0000000	25	Widowed	0	Zambian	Zambian	Goalkeeper	Right	176	68	96	Healthy	None	155	11625	4
15 Kagiso Tshabalala	Bloemfontein Celtic	2003-03-31 00:00:00.0000000	35	Divorced	0	Zambian	Zambian	Midfielder	Both	173	93	61	Recovering	SoccerLink Africa	175	12600	41
16 Sipanda Tshabalala	Orlando Pirates	2000-03-23 00:00:00.0000000	34	Divorced	4	Ghananian	Ghananian	Defender	Left	174	64	48	Healthy	None	184	19180	7
17 Sibusiso Molefe	Bloemfontein Celtic	2004-05-31 00:00:00.0000000	21	Widowed	0	Ghananian	Ghananian	Midfielder	Right	194	67	93	Healthy	SoccerLink Africa	349	27222	48
18 Lerato Tshabalala	Royal AM	1993-10-24 00:00:00.0000000	33	Married	1	Malawian	Malawian	Goalkeeper	Both	188	75	57	Recovering	SA Elite Agents	168	11266	10
19 Kasipo Tshabalala	Sakhukhune United	2006-08-12 00:00:00.0000000	19	Widowed	1	Zambian	Zambian	Midfielder	Both	185	83	67	Injured	None	378	28125	36

Query executed successfully.

2

```
5
6 --- Q2 Count the total number of players in the dataset.
7 select count(*) as total_number_of_players
8 from [dbo].[ketro_sa_soccer_dataset_advanced];
```

Results Messages

No issues found

total_number_of_players
1 300

Query executed successfully.

3

SQLQuery2.sql...tshidzwa (64)) SQLQuery1.sql...shidzwa (60)*

```

1  -- Q1 View the first 100 rows of the dataset to understand its structure.
2  select top 100 * from [dbo].[ketro_sa_soccer_dataset_advanced]
3
4  -- Q2 Count the total number of players in the dataset.
5  select count(*) as total_number_of_players
6  from [dbo].[ketro_sa_soccer_dataset_advanced];
7
8  --Q3 . List all unique teams in the league.
9  select distinct team from [dbo].[ketro_sa_soccer_dataset_advanced];

```

Results

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

No issues found

Query executed successfully.

4

```

13  -- Q4. Count how many players are in each team.
14  select team, count(*) as number_of_players_per_team
15  from [dbo].[ketro_sa_soccer_dataset_advanced]
16  group by team;
17
18
19
20
21
22
23
24
25
26
27
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29
30

```

No issues found

team	number_of_players_per_team
AmaZulu FC	22
Bloemfontein Celtic	17
Cape Town City	15
Chippa United	21
Golden Arrows	23
Kaizer Chiefs	20
Mamelodi Sundowns	19
Moroka Swallows	19
Orlando Pirates	9
Polokwane City	27
Richards Bay FC	13
Royal AM	18
Sekhukhune United	17
Stellenbosch FC	20
SuperSport United	20
TS Galaxy	20

Query executed successfully.

5

```

15
16 --5. Identify the top 10 players with the most goals.
17
18 select top 10 player_name,goals
19 from [dbo].[ketro_sa_soccer_dataset_advanced]
20 order by goals desc;
21
22
23
24
25
26
27
28
29
30

```

100% 1 No issues found

Results Messages

player_name	goals
Vusi Molefe	99
Thabo Ndluvu	98
Gugu Mongwane	98
Thabo Sithole	98
Mandla Mabena	98
Mpho Mahlangu	97
Bontumelo Nkosi	96
Mpho Radibe	92
Khanyi Nkosi	92
Sipho Phiri	91

Query executed successfully.

DESKTOP-2ECUGKC\SQLEXPRESS ... DESKTOP-2ECUGKC\Rotshi... Soccer_Analysis_Db1 00:00:00 | 10 rows

6

```

--Q6. Find the average salary for players in each team.
21
22 select team,avg(cast(average_salary_zar as float)) as average_salary
23 from [dbo].[ketro_sa_soccer_dataset_advanced]
24 group by team;
25
26
27
28
29
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41

```

0% 1 No issues found

Results Messages

team	average_salary
AmaZulu FC	172467,569545455
Bloemfontein Celtic	163683,838823529
Cape Town City	208407,432
Chippa United	180947,634761905
Golden Arrows	199057,643913043
Kaizer Chiefs	188954,4615
Mamelodi Sundowns	194404,484736842
Moroka Swallows	186786,827894737
Orlando Pirates	178570,593333333
Polokwane City	171738,877777778
Richards Bay FC	193006,199230769
Royal AM	209078,331111111
Sekhukhune United	169945,162941176
Stellenbosch FC	182326,7355
SuperSport United	195482,9785
TS Galaxy	184719,574

7

The screenshot shows the SQL Server Management Studio interface. In the top pane, there are two tabs: 'SQLQuery2.sql...tshidzwa (64)' and 'SQLQuery1.sql...tshidzwa (60)*'. The code in the tabs is:

```

24 --7. Retrieve the top 10 players with the highest market value.
25
26 select top 10 player.name, market_value_zar
27 from [dbo].[ketro_sa_soccer_dataset_advanced]
28 order by market_value_zar desc;
29
30
31
32
33
34
35
36
37
38
39
40
41

```

The bottom pane displays the results of the query:

	player.name	market_value_zar
1	NokuNhla Baloyi	9909625.35
2	Gugy Mokwena	9865061.36
3	Khanyi Mhembu	9845842.09
4	Nomce Hongwane	975559.35
5	Kebede Mavengu	9606957.95
6	Kagiso Dlamini	9383118.97
7	Lindwe Phiri	9352111.61
8	Mohlo Radeli	9294272.32
9	Lindwe Molefe	9277927.61
10	Thembu Tshabalala	9091048.14

Below the results, a message bar indicates: "Query executed successfully." and shows the status bar: "DESKTOP-ZECUGK\SQLEXPRESS ... DESKTOP-ZECUGK\Retschi... | Soccer_Analysis_Db | 00:00:00 | 10 rows".

8

The screenshot shows the SQL Server Management Studio interface. The code in the editor is:

```

29
30
31 --8. Calculate the average passing accuracy for each position.
32
33 SELECT position,
34     AVG(CAST(passing_accuracy AS FLOAT)) AS avg_passing_accuracy
35 FROM [dbo].[ketro_sa_soccer_dataset_advanced]
36 GROUP BY position;
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52

```

The bottom pane displays the results of the query:

	position	avg_passing_accuracy
1	Defender	82.6642857142857
2	Forward	83.210843373494
3	Goalkeeper	83.9397058823529
4	Midfielder	82.8177215189873

A message bar at the bottom left says: "No issues found".

9

```

36 -->9. Compare shot accuracy with goals to find correlations.
37 select player_name, goals, shot_accuracy
38 from [dbo].[ketro_sa_soccer_dataset_advanced]
39
40
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58
59

```

0% ~ No issues found

Ln: 39 Ch: 1 SPC CRU

Results Messages

player_name	goals	shot_accuracy
Siyanda Dlamini	9	83.7
Thabo Ndlovu	98	68.4
Vusi Molefe	99	79.0
Thembi Mahlangu	1	42.9
Nokuthula Sithole	2	74.0
Thembi Sithole	3	70.7
Siyanda Mahlangu	6	54.2
Leoro Mashaba	77	68.5
Nomsa Mahlangu	80	56.1
Tumelo Khumalo	48	46.0
Gugu Molefe	7	83.2
Thembi Mokgona	1	56.7
Thabo Sithole	14	80.6
Gugu Mabena	4	80.0
Kagiso Phin	41	73.2
Thembi Tshabalala	7	76.7
Sibusiso Molefe	48	51.1
Leoro Tshabalala	10	56.8
Kagiso Tshabalala	36	64.4
Guou Hlonwane	98	81.1

Query executed successfully.

DESKTOP-2ECUGKC\SQLEXPRESS ... DESKTOP-2ECUGKC\Rotsi... Soccer_Analysis_Db1 00:00:00 | 300 rows

10

Object Explorer SQLQuery2.sql [schdules] [schdules (600)* - X] -->10. Compute total goals and assists for each team.

```

39 select team, sum(cast(goals as int)) as total_goals, sum(cast(assists as int)) as total_assist
40
41 from [dbo].[ketro_sa_soccer_dataset_advanced]
42 group by team;
43
44
45
46
47
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49
50
51
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53
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60
61
62

```

No issues found

Results Messages

team	total_goals	total_assist
AmaZulu FC	549	568
Bloemfontein Celtic	613	566
Cape Town City	374	264
Chippa United	50	205
FC Motjeka	10	19
FC Vierlande	676	59
Kaizer Chiefs	597	481
Mamelodi Sundowns	570	475
Moska Swallows	729	452
Orlando Pirates	170	225
Pepsi Pirates	1550	1277
Richards Bay FC	453	273
Royal AM	544	480
Stellenbosch United	842	608
Stellenbosch FC	725	514
SuperSport United	580	514
TS Galaxy	541	337

11

```
43
44 --11. Count players by their marital status.
45 select marital_status, count(*) as players_by_marital_status
46 from [dbo].[ketro_sa_soccer_dataset_advanced]
47 group by marital_status;
48
49
50
51
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53
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63
64
65
66
```

0 % No issues found

Results Messages

marital_status	players_by_marital_status
Divorced	78
Married	65
Single	79
Widowed	78

12

```
SQLQuery2.sql..tshidzwa (64) SQLQuery1.sql..shidzwa (60)* ✎ ×
48
49 --12. Count players by nationality.
50 select nationality, count(*) as players_by_nationality
51 from [dbo].[ketro_sa_soccer_dataset_advanced]
52 group by nationality;
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
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69
70
71
```

100 % No issues found

Results Messages

nationality	players_by_nationality
Ghanaian	47
Malawian	42
Mozambican	37
Nigerian	39
South African	46
Zambian	44
Zimbabwean	45

13

```
53  --13. Find average market value grouped by nationality.
54  select nationality, avg(cast(market_value_zar as float)) as market_value_by_nationality
55  from [dbo].[ketro_sa_soccer_dataset_advanced]
56  group by nationality;
57
58
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75
76
```

100 % No issues found

Results Messages

	nationality	market_value_by_nationality
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

```
57  
58 --14. Determine how many player contracts end in each year.  
59 select contract_end_year, count(*) as players_by_year  
60 from [dbo].[ketro_sa_soccer_dataset_advanced]  
61 group by contract_end_year;  
62  
63  
64  
65  
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67  
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```

100 % No issues found

Results Messages

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

SQLQuery2.sql...tshidzwa (64)) SQLQuery1.sql...tshidzwa (60)*

```
62 --15. Identify players whose contracts end next year.
63 select player_name, contract_end_year
64 from [dbo].[ketro_sa_soccer_dataset_advanced]
65 where contract_end_year ='2026';
66
67
68
69
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85
```

100 % No issues found

Results Messages

	player_name	contract_end_year
1	Siyanda Dlamini	2026
2	Vusi Molefe	2026
3	Nokuthula Sithole	2026
4	Siyanda Mahlangu	2026
5	Nomsa Mahlangu	2026
6	Thembi Mokoena	2026
7	Thabo Sithole	2026
8	Kagiso Phiri	2026
9	Thembi Tshabalala	2026
10	Mandla Baloyi	2026
11	Tumelo Mokoena	2026
12	Thembi Mashaba	2026
13	Lerato Mabena	2026
14	Lindiwe Radebe	2026
15	Sipho Ndlovu	2026
16	Lebogang Phiri	2026
17	Sibusiso Radebe	2026
18	Sipho Khumalo	2026
19	Thabo Sithole	2026
20	Zanele Phiri	2026

SQLQuery2.sql..tshidzwa (64)) SQLQuery1.sq..shidzwa (60)*

```

66
67 --16. Summarize the number of players by injury status.
68 ✓ select injury_status, count(*) as players_by_injury_status
69   from [dbo].[ketro_sa_soccer_dataset_advanced]
70   group by injury_status;
71
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```

100 % No issues found

Results Messages

	injury_status	players_by_injury_status
1	Healthy	99
2	Injured	97
3	Recovering	104

17

SQLQuery2.sql..tshidzwa (64)) SQLQuery1.sq..shidzwa (60)*

```

71
72 --17. Calculate goals per match ratio for each player.
73 ✓ select player_name, goals, cast(matches_played as int), (goals/cast(matches_played as int)) as ratio_per_player
74   from [dbo].[ketro_sa_soccer_dataset_advanced]
75
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94

```

100 % No issues found

Results Messages

	player_name	goals	(No column name)	ratio_per_player
1	Siyanda Dlamini	9	53	0
2	Thabo Nelovu	98	272	0
3	Vusi Molefe	99	398	0
4	Thembu Mahlangu	1	135	0
5	Nokuthula Sihole	2	116	0
6	Thembu Sihole	3	279	0
7	Siyanda Mahlangu	6	18	0
8	Lerato Mashaba	77	241	0
9	Nomsa Mahlangu	80	322	0
10	Tumele Khumalo	48	253	0
11	Gugu Molefe	7	379	0
12	Thembi Mokoena	1	296	0
13	Thabo Sihole	14	229	0
14	Gugu Mabena	4	155	0
15	Kagiso Phin	41	175	0
16	Thembo Tshabalala	7	324	0
17	Sibusiso Molefe	48	349	0
18	Lerato Tshabalala	10	168	0
19	Kagiso Tshabalala	36	375	0
20	Guou Honowane	98	307	0

Query executed successfully.

18

SQLQuery2.sql...tshidzwa (64) SQLQuery1.sql...tshidzwa (60)* X

```
--18. Count how many players are managed by each agent.  
76  
77  
78 select agent, count(*) as players_mananged_by_each_aget  
79 from [dbo].[ketro_sa_soccer_dataset_advanced]  
80 group by agent;  
81  
82  
83  
84  
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94  
95  
96  
97  
98  
99
```

100 % No issues found

Results Messages

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

19

```
82  
83 --19. Calculate average height and weight by player position.  
84 ✓ select position,  
85     AVG (height_cm) as average_height,  
86     AVG (weight_kg) as average_weight  
87 from [dbo].[ketro_sa_soccer_dataset_advanced]  
88 group by position;  
89  
90  
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104  
105
```

0 % No issues found

Results Messages

	position	average_height	average_weight
1	Defender	182	78
2	Forward	179	78
3	Goalkeeper	179	78
4	Midfielder	179	76

20

```
89
90  --20. Identify players with the highest combined goals and assists.
91  select top 10 player_name, (goals+ assists) as highest_goals
92  from [dbo].[ketro_sa_soccer_dataset_advanced]
93  order by highest_goals desc;
```

The screenshot shows a SQL query results window. At the top, there are tabs for 'Results' and 'Messages'. The 'Results' tab is selected, displaying a table with two columns: 'player_name' and 'highest_goals'. The data is as follows:

player_name	highest_goals
Vusi Molefe	9977
Gugu Hlongwane	9838
Mandla Mabena	9837
Thabo Ndlovu	9828
Thabo Sithole	982
Khanyi Ndlovu	975
Mpho Mahlangu	974
Tumelo Dlamini	97
Mandla Sithole	97
Boitumelo Nkosi	9654