

1

Client Explorer

Connect: DESKTOP-ZECUGKC\SQLEXPRESS (SQL Server 15.0.20)

SQL Query1.sql - [dtb] SQL Query1.sql - [dtb]

```
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]
```

100% No issues found

	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	matches_played	minutes_played	goals
1	Siyanda Dlamini	Stellenbosch FC	1995-05-28 00:00:00.0000000	30	Widowed	0	South African	South African	Defender	Right	187	71	35	Recovering	SA Elite Agents	53	2650	9
2	Thabiso Molele	Cape Town City	2004-06-01 00:00:00.0000000	21	Single	1	Zimbabwean	Zimbabwean	Forward	Right	183	73	40	Recovering	SoccerLink Africa	272	23120	88
3	Vusi Moko	Stellenbosch FC	2004-06-20 00:00:00.0000000	19	Single	0	Nigerian	Nigerian	Forward	Left	187	68	65	Recovering	PlayerFirst	368	21690	59
4	Thembu Makhango	Bloemfontein Celtic	2004-02-08 00:00:00.0000000	21	Divorced	0	Zambian	Zambian	Goalkeeper	Left	168	93	24	Injured	None	135	7965	1
5	Thabiso Moko	Stellenbosch FC	2003-03-18 00:00:00.0000000	22	Divorced	3	Nigerian	Nigerian	Goalkeeper	Both	193	88	79	Injured	SoccerLink Africa	116	6032	2
6	Thembu Moko	Kaizer Chiefs	1989-02-14 00:00:00.0000000	36	Married	2	Nigerian	Nigerian	Goalkeeper	Left	193	79	54	Healthy	ProSport	279	18125	3
7	Siyanda Makhango	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	Polokwane City	1986-01-31 00:00:00.0000000	27	Widowed	0	Ghanaian	Ghanaian	Forward	Right	181	65	85	Healthy	None	241	18621	77
9	Nomusa Makhango	Polokwane City	1991-07-18 00:00:00.0000000	34	Divorced	0	Malawian	Malawian	Forward	Left	171	81	83	Recovering	PlayerFirst	322	28880	80
10	Timothy Khumalo	Kaizer Chiefs	1996-06-28 00:00:00.0000000	29	Married	4	Malawian	Malawian	Forward	Both	176	95	62	Healthy	None	252	20664	48
11	Gugu Molele	TS Galaxy	2007-01-29 00:00:00.0000000	18	Widowed	0	South African	South African	Defender	Left	188	85	32	Recovering	None	379	30320	7
12	Thembu Moko	Stellenbosch FC	1995-07-03 00:00:00.0000000	30	Widowed	0	Zimbabwean	Zimbabwean	Goalkeeper	Right	175	92	42	Healthy	SoccerLink Africa	296	16672	1
13	Thabiso Moko	Bloemfontein Celtic	2003-12-17 00:00:00.0000000	25	Single	0	Zimbabwean	Zimbabwean	Midfielder	Both	173	61	37	Recovering	ProSport	229	19623	14
14	Gugu Moko	SuperSport United	2000-09-19 00:00:00.0000000	23	Widowed	0	Zambian	Zambian	Goalkeeper	Right	178	63	66	Healthy	None	155	11625	4
15	Kagiso Phiso	Bloemfontein Celtic	1990-06-30 00:00:00.0000000	35	Divorced	0	Zambian	Zambian	Midfielder	Both	173	93	61	Recovering	SoccerLink Africa	175	12600	41
16	Thembu Thababala	Cape Town City	2003-01-22 00:00:00.0000000	22	Married	4	Ghanaian	Ghanaian	Defender	Both	185	84	48	Healthy	ProSport	324	19784	7
17	Thabiso Molele	Bloemfontein Celtic	2004-05-31 00:00:00.0000000	21	Widowed	0	Ghanaian	Ghanaian	Midfielder	Right	194	67	93	Healthy	SoccerLink Africa	349	27222	43
18	Lerato Thababala	Royal AM	1990-10-24 00:00:00.0000000	33	Married	1	Malawian	Malawian	Goalkeeper	Both	188	75	57	Recovering	SA Elite Agents	188	11256	10
19	Kagiso Thababala	Sekhukhune United	2006-09-12 00:00:00.0000000	19	Widowed	1	Zambian	Zambian	Midfielder	Both	185	83	67	Injured	None	375	28125	36

Query executed successfully.

DESKTOP-ZECUGKC\SQLEXPRESS ... DESKTOP-ZECUGKC\Rotshi... Soccer_Analysis_Db1 00:00:00 100 rows

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];
```

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	total_number_of_players
1	300

Query executed successfully.

DESKTOP-ZECUGKC\SQLEXPRESS ... DESKTOP-ZECUGKC\Rotshi... Soccer_Analysis_Db1 00:00:00 1 rows

3

SQLQuery2.sql_tshidzwa (60) 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];

```

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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

Query executed successfully. DESKTOP-2ECUGKC\SQLEXPRESS ... DESKTOP-2ECUGKC\Rotshi... Soccer_Analysis_Db1 00:00:00 16 rows

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;
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Results Messages

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. DESKTOP-2ECUGKC\SQLEXPRESS ... DESKTOP-2ECUGKC\Rotshi... Soccer_Analysis_Db1 00:00:00 16 rows

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```

15
16 --5. Identify the top 10 players with the most goals.
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18 select top 10 player_name,goals
19 from [dbo].[ketro_sa_soccer_dataset_advanced]
20 order by goals desc;
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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 Mabele	98
6	Mpho Mahlangu	97
7	Bokumelo Nkosi	96
8	Mpho Radebe	92
9	Khanyi Nkosi	92
10	Sipho Phiso	91

Query executed successfully. DESKTOP-2ECUGKC\SQLEXPRESS ... DESKTOP-2ECUGKC\Rotshi... Soccer_Analysis_Db1 00:00:00 10 rows

6

```

21 --Q6. Find the average salary for players in each team.
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;
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Results Messages

	team	average_salary
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

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays a SQL query: `--7. Retrieve the top 10 players with the highest market value. select top 10 player_name, market_value_zar from [dbo].[ketros_sa_soccer_dataset_advanced] order by market_value_zar desc;`. The bottom pane shows the results of the query, which is a table with two columns: `player_name` and `market_value_zar`. The results list 10 players, with Nkuthula Baloyi having the highest market value at 9906925.35. The status bar at the bottom indicates 'Query executed successfully' and '10 rows'.

	player_name	market_value_zar
1	Nkuthula Baloyi	9906925.35
2	Gugu Mokoena	9888061.36
3	Khanyi Mhembu	9845842.09
4	Nomsa Hlongwane	975559.35
5	Kabelo Mahlangu	960957.95
6	Kagiso Dlamini	9363118.97
7	Lindwe Phiri	9352111.61
8	Mpho Radebe	9294272.32
9	Lindwe Molefe	9277927.61
10	Thembi Tshabalala	9091048.14

8

The screenshot shows the SQL Server Enterprise Manager interface. The top pane displays a SQL query: `--8. Calculate the average passing accuracy for each position. SELECT position, AVG(CAST(passing_accuracy AS FLOAT)) AS avg_passing_accuracy FROM [dbo].[ketros_sa_soccer_dataset_advanced] GROUP BY position;`. The bottom pane shows the results of the query, which is a table with two columns: `position` and `avg_passing_accuracy`. The results list 4 positions: Defender, Forward, Goalkeeper, and Midfielder, with their respective average passing accuracies. The status bar at the bottom indicates 'No issues found'.

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

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36 --9. Compare shot accuracy with goals to find correlations.
 37 select player_name, goals, shot_accuracy
 38 from [dbo].[ketros_soccer_dataset_advanced]
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0% No issues found

Results Messages

	player_name	goals	shot_accuracy
1	Siyanda Dlamini	9	83.7
2	Thabo Ndlovu	88	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 Mahole	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	Guuso Honorewane	88	81.1

Query executed successfully.

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

10

Object Explorer SQL Query 2 (SQL Server 15.0.2000) SQL Query Log - siddhwa (800) SQL Query Log - siddhwa (800)

39 --10. Compute total goals and assists for each team.
 40 select team, sum(cast(goals as int)) as total_goals, sum(cast(assists as int)) as total_assist
 41 from [dbo].[ketros_soccer_dataset_advanced]
 42 group by team;
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100% No issues found

Results Messages

	team	total_goals	total_assist
1	Amazulu FC	548	568
2	Bloemfontein Celtic	613	566
3	Cape Town City	374	294
4	Chippa United	684	205
5	Golden Arrows	678	519
6	Kaizer Chiefs	587	481
7	Mamelodi Sundowns	579	475
8	Moroka Swallows	729	452
9	Orlando Pirates	170	225
10	Pretoria City	1350	763
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

Object Explorer

- DESKTOP-2ECUGKC\SQLEXPRESS (SQL Server 15.0.2000)
 - Databases
 - System Databases
 - Database Snapshots
 - CarSalesDb1
 - planesalesDb2
 - Soccer_Analysis_Db1
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - dbo.Backup_Table1
 - dbo.ketros_soccer_dataset_advanced
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - soccerteamanalysis
 - Database Diagrams
 - Tables
 - System Tables
 - FileTables
 - External Tables
 - Graph Tables
 - Views
 - External Resources
 - Synonyms
 - Programmability
 - Service Broker
 - Storage
 - Security
 - Server Objects
 - Replication
 - PolyBase
 - Management
 - XEvent Profiler

11

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44 --11. Count players by their marital status.
45 select marital_status, count (*) as players_by_marital_status
46 from [dbo].[ketros_sa_soccer_dataset_advanced]
47 group by marital_status;
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Results Messages

marital_status	players_by_marital_status
Divorced	78
Married	65
Single	79
Widowed	78

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

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48
49 --12. Count players by nationality.
50 select nationality, count(*) as players_by_nationality
51 from [dbo].[ketros_sa_soccer_dataset_advanced]
52 group by nationality;
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Results Messages

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

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--13. Find average market value grouped by nationality.
select nationality, avg(cast(market_value_zar as float)) as market_value_by_nationality
from [dbo].[ketro_sa_soccer_dataset_advanced]
group by nationality;

100 %
No issues found

ResultsMessages

	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

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--14. Determine how many player contracts end in each year.
select contract_end_year, count(*) as players_by_year
from [dbo].[ketro_sa_soccer_dataset_advanced]
group by contract_end_year;

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...shidzwa (60))*

```

62  --15. Identify players whose contracts end next year.
63  select player_name, contract_end_year
64  from [dbo].[ketrosoccerdatasetadvanced]
65  where contract_end_year = '2026';
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Results

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	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.sql...shidzwa (60))* X

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

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

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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].[ketrosoccerdatasetadvanced]
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Results Messages

	player_name	goals	(No column name)	ratio_per_player
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
10	Tumelo Khumalo	48	252	0
11	Gugu Molefe	7	379	0
12	Thembi Mokoena	1	296	0
13	Thabo Sithole	14	229	0
14	Gugu Mabena	4	155	0
15	Kagiso Phiso	41	175	0
16	Thembi Tshabalala	7	324	0
17	Sibusiso Molefe	48	349	0
18	Lerato Tshabalala	10	168	0
19	Kagiso Tshabalala	36	375	0
20	Gugu Hlonwane	98	307	0

Query executed successfully. DESKTOP-2ECUGKC\SQLEXPRESS ... DESKTOP-2ECUGKC\Rethi... Soccer_Analysis_Db1 00:00:00

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SQLQuery2.sql...tshidzwa (64))

SQLQuery1.sql...shidzwa (60))*

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

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select agent, count(*) as players_managed_by_each_aget

from [dbo].[ketrosoccerdataset_advanced]

group by agent;

100 %

No issues found

Results

Messages

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

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--19. Calculate average height and weight by player position.
select position,
  AVG (height_cm) as average_height,
  AVG (weight_kg) as average_weight
from [dbo].[ketro_sa_soccer_dataset_advanced]
group by position;

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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

```

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].[ketrosoccerdataset_advanced]
93 order by highest_goals desc;

```

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Results	Messages				
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				