

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

```
SQLQuery1.sql - (...)TRATOR\Admin (61)* ↵ X
USE Soccer_Team_DB;

--1. View the first 100 rows of the dataset to understand its structure.
SELECT TOP 100 * FROM [dbo].[ketro_sa_soccer_dataset_advanced];

--2. Count the total number of players in the dataset.
SELECT COUNT(*) AS TOTA_PLAYERS
FROM [dbo].[ketro_sa_soccer_dataset_advanced];

--3. List all unique teams in the league.
SELECT DISTINCT(TEAM) AS TEAM_NAME
FROM [dbo].[ketro_sa_soccer_dataset_advanced];

--4. Count how many players are in each team.
SELECT COUNT(Player_Name) as team_player,
       team
FROM [dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY team;
--5. Identify the top 10 players with the most goals.
SELECT top 10 Player_name,
       goals
FROM [dbo].[ketro_sa_soccer_dataset_advanced]
ORDER BY goals DESC;
--6. Find the average salary for players in each team.
SELECT AVG(CAST(average_salary_zar AS float)) AS AVG_Salary_zar,
       team
FROM [dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY team;
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FROM [dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY team;
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FROM [dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY team;
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GROUP BY team;
--10. Find the average salary for players in each team.
SELECT AVG(CAST(average_salary_zar AS float)) AS AVG_Salary_zar,
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FROM [dbo].[ketro_sa_soccer_dataset_advanced]
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SELECT AVG(CAST(average_salary_zar AS float)) AS AVG_Salary_zar,
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FROM [dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY team;
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GROUP BY team;
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SELECT AVG(CAST(average_salary_zar AS float)) AS AVG_Salary_zar,
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GROUP BY team;
--18. Find the average salary for players in each team.
SELECT AVG(CAST(average_salary_zar AS float)) AS AVG_Salary_zar,
       team
FROM [dbo].[ketro_sa_soccer_dataset_advanced]
GROUP BY team;
```

Results

	player_name	team	date_of_birth	age	marital_status	number_of_kids	nationality	country_of_birth	position	prefered_foot	height_cm	weight_kg	jersey_number	injury_status	agent	matches_played	minutes_p
1	Syanda 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 Agents	53	2650
2	Thabo Ndlonu	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
3	Vusi Molefe	Stellenbosch FC	2006-09-20 00:00:00.0000000	19	Single	0	Nigerian	Nigerian	Forward	Left	167	66	65	Recovering	PlayerFirst	398	21890
4	Thembi Mahlangu	Bloemfontein Celtic	2004-02-08 00:00:00.0000000	21	Divorced	0	Zimbabwean	Zimbabwean	Goalkeeper	Left	166	93	24	Injured	None	135	7965
5	Nokuthula Sithole	Pokokwane City	2003-03-18 00:00:00.0000000	22	Divorced	3	Nigerian	Nigerian	Goalkeeper	Both	193	88	79	Injured	SoccerLink Africa	116	6032
6	Thembi Shikole	Kaizer Chiefs	1989-02-14 00:00:00.0000000	36	Married	2	Nigerian	Nigerian	Goalkeeper	Left	193	79	54	Healthy	ProSport	279	18135
7	Syanda Mahlangu	Chippa United	1989-12-09 00:00:00.0000000	36	Single	0	Zimbabwean	Zimbabwean	Defender	Both	181	67	27	Healthy	SoccerLink Africa	18	1224
8	Leorato Mashaba	Pokokwane City	1998-01-31 00:00:00.0000000	27	Widowed	0	Ghanaian	Ghanaian	Forward	Right	181	65	85	Healthy	None	241	19521
9	Nompa Mahlangu	Pokokwane City	1997-07-16 00:00:00.0000000	34	Divorced	0	Malawian	Malawian	Forward	Left	171	81	83	Recovering	PlayerFirst	322	28980
10	Tumelo Khumalo	Kaizer Chiefs	1996-08-28 00:00:00.0000000	29	Married	4	Malawian	Malawian	Forward	Both	175	95	62	Healthy	None	252	20664
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	379	30320
12	Thembi Mokoneka	Stellenbosch FC	1995-07-03 00:00:00.0000000	30	Widowed	0	Zimbabwean	Zimbabwean	Goalkeeper	Right	175	92	42	Healthy	SoccerLink Africa	296	16872
13	Thabo Shikole	Bloemfontein Celtic	2000-02-17 00:00:00.0000000	25	Single	0	Zimbabwean	Zimbabwean	Midfielder	Both	173	61	37	Recovering	ProSport	229	19923
14	Gugu Mabena	SuperSport United	2000-09-19 00:00:00.0000000	25	Widowed	0	Zimbabwean	Zimbabwean	Goalkeeper	Right	176	68	96	Healthy	None	155	11625
15	Kagiso Phiri	Bloemfontein Celtic	1990-06-30 00:00:00.0000000	35	Divorced	0	Zimbabwean	Zimbabwean	Midfielder	Both	173	93	61	Recovering	SoccerLink Africa	175	12600
16	Thembi Thihabala	Cape Town City	2003-01-22 00:00:00.0000000	22	Married	4	Ghanaian	Ghanaian	Defender	Both	195	84	48	Healthy	ProSport	324	19764
17	Stibuso Molefe	Bloemfontein Celtic	2004-05-31 00:00:00.0000000	21	Widowed	0	Ghanaian	Ghanaian	Midfielder	Right	194	67	93	Healthy	SoccerLink Africa	349	27222
18	Leorato Shabalala	Royal AM	1992-10-24 00:00:00.0000000	33	Married	1	Malawian	Malawian	Goalkeeper	Both	188	75	57	Recovering	SA Elite Agents	168	11256

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

```
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GROUP BY team;
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Results

	TOTA_PLAYERS
1	300

3. List all unique teams in the league.

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ORDER BY goals DESC
--6. Find the average salary for players in each team.
SELECT AVG(CAST(average_salary_zar AS float)) AS AVG_Salary_zar,
       team
```

Results

TEAM_NAME
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

4. Count how many players are in each team.

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ORDER BY goals DESC
--6. Find the average salary for players in each team.
SELECT AVG(CAST(average_salary_zar AS float)) AS AVG_Salary_zar,
       team
```

Results

team_player	team
1 22	AmaZulu FC
2 17	Bloemfontein Celtic
3 15	Cape Town City
4 21	Chippa United
5 23	Golden Arrows
6 20	Kaizer Chiefs
7 19	Mamelodi Sundowns
8 19	Moroka Swallows
9 9	Orlando Pirates
10 27	Polokwane City
11 13	Richards Bay FC
12 18	Royal AM
13 17	Sekhukhune United
14 20	Stellenbosch FC
15 20	SuperSport United
16 20	TS Galaxy

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

```
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  FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
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       team  
  FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
 GROUP BY team;
```

Results

	Player_name	goals
1	Vusi Molefe	99
2	Thabo Ndlovu	98
3	Gugu Hongwane	98
4	Thabo Sithole	98
5	Mandla Mabena	98
6	Mpho Mahlangu	97
7	Boitumelo Nkosi	96
8	Mpho Radebe	92
9	Khanyi Nkosi	92
10	Sipho Phiri	91

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

```
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SELECT AVG(CAST(average_salary_zar AS float)) AS AVG_Salary_zar,  
       team  
  FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
 GROUP BY team;  
  
--7. Retrieve the top 10 players with the highest market value.  
SELECT TOP 10 Player_name,  
       Market_value_zar  
  FROM [dbo].[ketro_sa_soccer_dataset_advanced]
```

Results

	AVG_Salary_zar	team
1	172467,569545455	AmaZulu FC
2	163683,838823529	Bloemfontein Celtic
3	208407,432	Cape Town City
4	180947,634761905	Chippa United
5	199057,643913043	Golden Arrows
6	188954,4615	Kaizer Chiefs
7	194404,484736842	Mamelodi Sundowns
8	186786,827894737	Moroka Swallows
9	178570,593333333	Orlando Pirates
10	171738,877777778	Polokwane City
11	193006,199230769	Richards Bay FC
12	209078,331111111	Royal AM
13	169945,162941176	Sekhukhune United
14	182326,7355	Stellenbosch FC
15	195482,9785	SuperSport United
16	184719,574	TS Galaxy

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

```
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SELECT TOP 10 Player_name,  
       Market_value_zar  
  FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
 ORDER BY market_value_zar DESC  
  
--8. Calculate the average passing accuracy for each position.  
SELECT AVG(CAST(passing_accuracy AS FLOAT)) AS average_value,  
       POSITION
```

100 %

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

8. Calculate the average passing accuracy for each position.

```
--8. Calculate the average passing accuracy for each position.  
SELECT AVG(CAST(passing_accuracy AS FLOAT)) AS average_value,  
       POSITION  
  FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
 WHERE ISNUMERIC(passing_accuracy) = 1  
 GROUP BY POSITION  
 ORDER BY position;  
  
--9. Compare shot accuracy with goals to find correlations.  
SELECT  
       team,  
       SUM(CAST(goals AS FLOAT)) AS total_goals,
```

.00 %

Results Messages

	average_value	POSITION
1	82,6642857142857	Defender
2	83,210843373494	Forward
3	83,9397058823529	Goalkeeper
4	82,8177215189873	Midfielder

9. Compare shot accuracy with goals to find correlations.

```
--9. Compare shot accuracy with goals to find correlations.  
SELECT  
    team,  
    SUM(CAST(goals AS FLOAT)) AS total_goals,  
    SUM(CAST(shot_accuracy AS FLOAT)) * 1.0 / NULLIF(SUM(CAST(goals AS FLOAT)), 0) AS shot_accuracy,  
    COUNT(*) AS matches_played  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY team  
ORDER BY shot_accuracy DESC;  
  
--10. Compute total goals and assists for each team.  
SELECT SUM(CAST(goals AS FLOAT)) AS goals,  
    SUM(CAST(assists AS FLOAT)) AS assist,
```

Results

team	total_goals	shot_accuracy	matches_played
1 Orlando Pirates	170	3,59588235294118	9
2 Cape Town City	374	2,80053475935829	15
3 AmaZulu FC	546	2,56538461538462	22
4 SuperSport United	580	2,34672413793103	20
5 TS Galaxy	541	2,33123844731978	20
6 Golden Arrows	676	2,23372781065089	23
7 Royal AM	544	2,20257352941176	18
8 Mamelodi Sundowns	570	2,10421052631579	19
9 Kaizer Chiefs	597	2,02529313232831	20
10 Richards Bay FC	453	1,90331125827815	13
11 Chippa United	684	1,87938596491228	21
12 Stellenbosch FC	725	1,86413793103448	20
13 Moroka Swallows	729	1,80809327846365	19
14 Bloemfontein Celtic	613	1,74942903752039	17
15 Sekhukhune United	842	1,35688836104513	17
16 Polokwane City	1300	1,32092307692308	27

10. Compute total goals and assists for each team.

```
--10. Compute total goals and assists for each team.  
SELECT SUM(CAST(goals AS FLOAT)) AS goals,  
    SUM(CAST(assists AS FLOAT)) AS assist,  
    team  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY team  
ORDER BY team;  
  
--11. Count players by their marital status.  
SELECT COUNT(player_name) AS Count_Players,  
    marital_status  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY marital_status;
```

Results

	goals	assist	team
1	546	568	AmaZulu FC
2	613	566	Bloemfontein Celtic
3	374	284	Cape Town City
4	684	205	Chippa United
5	676	519	Golden Arrows
6	597	481	Kaizer Chiefs
7	570	475	Mamelodi Sundowns
8	729	452	Moroka Swallows
9	170	225	Orlando Pirates
10	1300	783	Polokwane City
11	453	273	Richards Bay FC
12	544	480	Royal AM
13	842	608	Sekhukhune United
14	725	514	Stellenbosch FC
15	580	514	SuperSport United
16	541	337	TS Galaxy

11. Count players by their marital status.

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SELECT COUNT(player_name) AS Count_Players,  
       marital_status  
  FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
 GROUP BY marital_status;  
--12. Count players by nationality.  
SELECT COUNT(Player_name) AS Players,  
       nationality  
  FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
 GROUP BY nationality;  
--13. Find average market value grouped by nationality.
```

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

12. Count players by nationality.

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SELECT COUNT(Player_name) AS Players,  
       nationality  
  FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
 GROUP BY nationality;  
--13. Find average market value grouped by nationality.  
SELECT AVG(CAST(market_value_zar AS FLOAT)) as market_value,  
       nationality  
  FROM [dbo].[ketro_sa_soccer_dataset_advanced]
```

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

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SELECT AVG(CAST(market_value_zar AS FLOAT)) as market_value,  
       nationality  
  FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
 GROUP BY nationality;  
--14. Determine how many player contracts end in each year.
```

	market_value	nationality
1	12298308.0365957	Ghanaian
2	11727296.0554762	Malawian
3	14736203.5943243	Mozambican
4	15069261.3964103	Nigerian
5	12037870.2363043	South African
6	12777043.0611364	Zambian
7	10367909.5322222	Zimbabwean

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

```
--14. Determine how many player contracts end in each year.  
SELECT  
    contract_end_year,  
    COUNT(Player_name) AS Player_Count,  
    CASE  
        WHEN contract_end_year = YEAR(GETDATE()) THEN 'Ends This Year'  
        WHEN contract_end_year = YEAR(GETDATE()) + 1 THEN 'Ends Next Year'  
        WHEN contract_end_year < YEAR(GETDATE()) THEN 'Expired'  
        ELSE 'Active Beyond Next Year'  
    END AS Contract_Status  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY contract_end_year  
ORDER BY contract_end_year;  
  
--15. Identify players whose contracts end next year.  
SELECT Player_name,contract_end_year  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]
```

100 %

	contract_end_year	Player_Count	Contract_Status
1	2026	63	Ends Next Year
2	2027	70	Active Beyond Next Year
3	2028	52	Active Beyond Next Year
4	2029	50	Active Beyond Next Year
5	2030	65	Active Beyond Next Year

15. Identify players whose contracts end next year.

```
--15. Identify players whose contracts end next year.  
SELECT Player_name,contract_end_year  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
WHERE contract_end_year = 2026;  
--16. Summarize the number of players by injury status.  
SELECT COUNT(Player_name),injury_status  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY injury_status;  
--17. Calculate goals per match ratio for each player.
```

100 %

	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

16. Summarize the number of players by injury status.

```
--16. Summarize the number of players by injury status.  
SELECT COUNT(Player_name),injury_status  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY injury_status;  
--17. Calculate goals per match ratio for each player.  
SELECT  
    player_name,  
    TRY_CAST(goals AS FLOAT) / NULLIF(TRY_CAST(matches_played AS FLOAT), 0) AS goals_per_match  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
--18. Count how many players are managed by each agent.  
SELECT COUNT(player_name)as number_of_players,agent
```

100 %

Results Messages

(No column name)	injury_status
1	99
2	Injured
3	Recovering

17. Calculate goals per match ratio for each player.

```
--17. Calculate goals per match ratio for each player.  
SELECT  
    player_name,  
    TRY_CAST(goals AS FLOAT) / NULLIF(TRY_CAST(matches_played AS FLOAT), 0) AS goals_per_match  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
--18. Count how many players are managed by each agent.  
SELECT COUNT(player_name)as number_of_players,agent  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY agent;  
--19. Calculate average height and weight by player position.
```

100 %

Results Messages

	player_name	goals_per_match
1	Siyanda Dlamini	0.169811320754717
2	Thabo Ndlovu	0.360294117647059
3	Vusi Molefe	0.248743718592965
4	Thembi Mahlangu	0.00740740740740741
5	Nokuthula Sithole	0.0172413793103448
6	Thembi Sithole	0.010752688172043
7	Siyanda Mahlangu	0.333333333333333
8	Lerato Mashaba	0.319502074688797
9	Nomsa Mahlangu	0.248447204968944
10	Tumelo Khumalo	0.19047619047619
11	Gugu Molefe	0.0184696569920844
12	Thembi Mokoena	0.00337837837837838
13	Thabo Sithole	0.0611353711790393
14	Gugu Mabena	0.0258064516129032
15	Kagiso Phiri	0.234285714285714
16	Thembi Tshabalala	0.0216049382716049
17	Sibusiso Molefe	0.137535816618911
18	Lerato Tshabalala	0.0595238095238095
19	Kagiso Tshabalala	0.096

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

```
--18. Count how many players are managed by each agent.  
SELECT COUNT(player_name)as number_of_players,agent  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY agent;  
--19. Calculate average height and weight by player position.  
SELECT AVG(height_cm) as avg_height, AVG(weight_kg) as avg_weight,position  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY position;
```

100 %

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

19. Calculate average height and weight by player position.

```
--19. Calculate average height and weight by player position.  
SELECT AVG(height_cm) as avg_height, AVG(weight_kg) as avg_weight,position  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY position;  
--20. Identify players with the highest combined goals and assists.  
SELECT Player_name,(SUM(CAST(goals AS float)) + SUM(CAST(assists AS float))) AS highest_combined_goals_and_assists  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY player_name  
ORDER BY highest_combined_goals_and_assists DESC;
```

100 %

	avg_height	avg_weight	position
1	182	78	Defender
2	179	78	Forward
3	179	78	Goalkeeper
4	179	76	Midfielder

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

```
--20. Identify players with the highest combined goals and assists.  
SELECT Player_name,(SUM(CAST(goals AS float)) + SUM(CAST(assists AS float))) AS highest_combined_goals_and_assists  
FROM [dbo].[ketro_sa_soccer_dataset_advanced]  
GROUP BY player_name  
ORDER BY highest_combined_goals_and_assists DESC;
```

100 %

	Player_name	highest_combined_goals_and_assists
1	Vusi Radebe	435
2	Ayanda Sithole	411
3	Kagiso Phiri	353
4	Karabo Phiri	335
5	Thabo Sithole	269
6	Khanyi Ndlovu	253
7	Zanele Phiri	244
8	Mandla Baloyi	241
9	Thabo Ndlovu	229
10	Gugu Tshabalala	228
11	Thembi Dlamini	226
12	Khanyi Nkosi	217
13	Nokuthula Mabena	206
14	Thabo Phiri	206
15	Nomsa Tshabalala	196
16	Lebogang Phiri	194
17	Siyanda Mabena	193
18	Zanele Molefe	192
19	Lindiwe Radebe	187