

PRACTICAL EXERCISE 4

ON SQL SERVER MANAGEMENT STUDIO(SSMS)

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

The screenshot shows the SQL Server Management Studio interface with three tabs: 'SQLQuery3.sql' (selected), 'SQLQuery2.s...', and 'SQLQuery1.s...'. The 'Results' tab displays the output of the following query:

```
1. View the first 100 rows of the dataset to understand its structure.  
2. select top(100) *  
FROM [katro_soccer].[dbo].[sa_soccer_dataset_advanced];
```

The results table has 18 columns and 100 rows. The columns are: 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, and matches_played. The data includes various players from different teams like Stellenbosch FC, Cape Town City, Bloemfontein Celtic, and Polokwane City, with details like their birth dates, nationalities, and positions.

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

The screenshot shows the SQL Server Management Studio interface with three tabs: 'SQLQuery3.sql' (selected), 'SQLQuery2.s...', and 'SQLQuery1.s...'. The 'Results' tab displays the output of the following query:

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```

3. List all unique teams in the league.

The screenshot shows the SQL Server Management Studio interface with a query window titled "SQLQuery2...-peter (55)*". The query is:29
30
31
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33
34
35
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38
39
--3. List all unique teams in the league.
Select distinct team
FROM [kafro_soccer] [dbo] [sa_soccer_dataset_advanced]The results pane displays a table with one column "team" containing 16 rows of team names. The output is as follows:| 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 |

At the bottom of the results pane, a message indicates "Query executed successfully." The status bar at the bottom right shows "LAPTOP-52H3VMH0 (16.0 RTM) | LAPTOP-52H3VMH0\njabul... | master | 00:00:00 | Row: 1, Col: 1 | 16 rows".

4. Count how many players are in each team

The screenshot shows the SQL Server Management Studio interface with a query window titled "SQLQuery2...-peter (55)*". The query is:38
39
40
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42
43
44
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46
47
48
--4. Count how many players are in each team.
select team,
 count(*) as total_players
 FROM [kafro_soccer] [dbo] [sa_soccer_dataset_advanced]
 group by team
 order by count(*) desc;The results pane displays a table with two columns: "team" and "total_players". The output is as follows:| team | total_players |
| --- | --- |
| 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 |
| 10 Moroka Swallows | 19 |
| 11 Royal AM | 18 |
| 12 Sekhukhune United | 17 |
| 13 Bloemfontein Celtic | 17 |
| 14 Cape Town City | 15 |
| 15 Richards Bay FC | 13 |

At the bottom of the results pane, a message indicates "Query executed successfully." The status bar at the bottom right shows "LAPTOP-52H3VMH0 (16.0 RTM) | LAPTOP-52H3VMH0\njabul... | master | 00:00:00 | Row: 1, Col: 1 | 16 rows".

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

The screenshot shows the SQL Server Management Studio interface. The query window contains the following T-SQL code:

```
58
59     --5. Identify the top 10 players with the most goals.
60
61     select top(10)player_name,
62             sum(goals) as total_goals
63
64     FROM [katro_soccer].[dbo].[sa_soccer_dataset_advanced]
65
66     group by player_name
67
68     order by sum(goals) desc;
```

The results pane displays a table with 10 rows, showing the player names and their total goals:

	player_name	total_goals
1	Vusi Radebe	285
2	Ayanda Sitole	246
3	Kagiso Phiri	242
4	Karabo Phiri	222
5	Thabo Sitole	182
6	Zanele Phiri	172
7	Manda Baloyi	170
8	Khanyi Nkosi	167
9	Thabo Ndlovu	167
10	Gugu Takabelala	148

The status bar at the bottom indicates "Query executed successfully."

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

The screenshot shows the SQL Server Management Studio interface. The query window contains the following T-SQL code:

```
62
63
64     --6. Find the average salary for players in each team.
65
66     select
67         Team,
68         round(Avg(average_salary_zar), 2) as Avg_salary
69
70     FROM [katro_soccer].[dbo].[sa_soccer_dataset_advanced]
71
72     group by team;
```

The results pane displays a table with 15 rows, showing the team names and their average salaries:

	Team	Avg_salary
1	Amazulu FC	172467.57
2	Bloemfontein Celtic	163683.84
3	Cape Town City	204074.43
4	Chippa United	180947.63
5	Golden Arrows	199057.64
6	Kaizer Chiefs	188954.46
7	Maritzburg Sundowns	194404.48
8	Monrovia Swallows	186786.83
9	Orlando Pirates	178570.59
10	Poalkwane City	171738.88
11	Richards Bay FC	193006.2
12	Royal AM	209078.33
13	Sekhukhune United	169945.16
14	Stellenbosch FC	182326.73
15	SuperSport United	195482.98

The status bar at the bottom indicates "Query executed successfully."

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

The screenshot shows the SQL Server Management Studio interface. A query window titled "SQLQuery2...- peter (55)*" contains the following T-SQL code:

```
74 --7. Retrieve the top 10 players with the highest market value.
75
76 Select top(10)
77     player_name,
78     market_value_zar
79
80 FROM [katro_soccer].[dbo].[sa_soccer_dataset_advanced]
81
82 order by market_value_zar desc
```

The results pane displays a table with 10 rows, showing player names and their market values in Zar:

	player_name	market_value_zar
1	Ayanda Mabaso	24979190
2	Lebogang Mabene	24887822
3	Gugu Mashaba	24868294
4	Kgabo Mokoena	24550162
5	Bathabile Radebe	24540830
6	Thabo Ntlevu	24380712
7	Sipho Mashaba	24342132
8	Lerato Ngobeni	24231618
9	Thabo Tshabalala	24229792
10	Lerato Tshabalala	24226786

At the bottom of the results pane, a message indicates: "Query executed successfully."

8. Calculate the average passing accuracy for each position.

The screenshot shows the SQL Server Management Studio interface. A query window titled "SQLQuery3...- peter (55)*" contains the following T-SQL code:

```
85 --8. Calculate the average passing accuracy for each position.
86
87 select position,
88        preferred_foot,
89        round(Avg(passing_accuracy), 0) as Average_passing_accuracy
90
91 FROM [katro_soccer] [dbo].[sa_soccer_dataset_advanced]
92
93 group by position,preferred_foot
94
95 order by round(Avg(passing_accuracy), 0) desc;
```

The results pane displays a table with 12 rows, showing the average passing accuracy for each position and foot preference:

	position	preferred_foot	Average_passing_accuracy
1	Midfielder	Right	86
2	Goalkeeper	Left	85
3	Forward	Right	85
4	Goalkeeper	Right	84
5	Defender	Left	84
6	Forward	Both	83
7	Goalkeeper	Both	83
8	Midfielder	Both	82
9	Midfielder	Left	82
10	Defender	Right	82
11	Defender	Both	82
12	Forward	Left	81

At the bottom of the results pane, a message indicates: "Query executed successfully."

9. Compare shot accuracy with goals to find correlations.

The screenshot shows a SQL Server Management Studio (SSMS) window. The query editor contains the following T-SQL code:

```
99  
100  
101    select  
102        case  
103            when ROUND(shot_accuracy, 0) between 40 and 50 then 'lower(40-50)'  
104            when ROUND(shot_accuracy, 0) between 51 and 60 then 'Average(51-60)'  
105            when ROUND(shot_accuracy, 0) between 61 and 70 then 'High(61-70)'  
106            else 'Elite(71+)'  
107        end as Shot_Accuracy_Bucket  
108  
109        sum(goals) as Total_Goals  
110  
111    FROM [matro_soccer].[dbo].[sa_soccer_dataset_advanced]  
112    group by case  
113        when ROUND(shot_accuracy, 0) between 40 and 50 then 'lower(40-50)'  
114        when ROUND(shot_accuracy, 0) between 51 and 60 then 'Average(51-60)'  
115        when ROUND(shot_accuracy, 0) between 61 and 70 then 'High(61-70)'  
116        else 'Elite(71+)'  
117    end  
118  
119    order by sum(goals) desc;  
120
```

The results pane displays a table with four rows:

Shot_Accuracy_Bucket	Total_Goals
Elite(71+)	4359
High(61-70)	2270
lower(40-50)	1688
Average(51-60)	1627

At the bottom of the results pane, it says "Query executed successfully."

10. Compute total goals and assists for each team.

The screenshot shows a SQL Server Management Studio (SSMS) window. The query editor contains the following T-SQL code:

```
121  
122    --10. Compute total goals and assists for each team.  
123  
124    select team,  
125        sum(goals) as total_goals,  
126        sum(assists) as total_assists,  
127        sum(goals) + sum(assists) as Total_Contributions  
128  
129    FROM [matro_soccer].[dbo].[sa_soccer_dataset_advanced]  
130  
131    group by team  
132  
133  
134  
135
```

The results pane displays a table with 12 rows:

team	total_goals	total_assists	Total_Contributions
Polokwane City	1300	783	2083
Selukhume United	842	608	1450
Stellenbosch FC	725	514	1239
Golden Arrows	676	519	1195
Monica Swallows	729	452	1181
Bloemfontein Celtic	613	566	1179
Amazulu FC	546	568	1114
SuperSport United	580	514	1094
Kaizer Chiefs	597	491	1078
Mamelodi Sundowns	570	475	1045
Royal AM	544	480	1024
Chippa United	684	205	889

At the bottom of the results pane, it says "Query executed successfully."

11. Count players by their marital status.

The screenshot shows the SQL Server Management Studio interface. A query window titled 'SQLQuery2.s... peter (55)*' contains the following SQL code:

```
--11. Count players by their marital status.  
select marital_status,  
       count(*) as players  
FROM [katro_soccer].[dbo].[sa_soccer_dataset_advanced]  
group by marital_status;
```

The results pane displays a table with four rows:

marital_status	players
Divorced	78
Married	65
Single	79
Widowed	78

A message bar at the bottom indicates: 'Query executed successfully.'

12. Count players by nationality

The screenshot shows the SQL Server Management Studio interface. A query window titled 'SQLQuery3.s... peter (55)*' contains the following SQL code:

```
--12. Count players by nationality.  
select nationality,  
       count(*) as Players  
FROM [katro_soccer].[dbo].[sa_soccer_dataset_advanced]  
group by nationality;
```

The results pane displays a table with seven rows:

nationality	Players
Ghanaien	47
Malawian	42
Mozambican	37
Nganian	39
South African	46
Zambian	44
Zimbabwean	45

A message bar at the bottom indicates: 'Query executed successfully.'

13. Find average market value grouped by nationality.

The screenshot shows the SQL Server Management Studio interface. A query window titled 'SQLQuery2.s... (Peter (55))' contains the following code:

```
--13. Find average market value grouped by nationality.  
select nationality,  
       round(avg(market_value_zar),2) as Average_Market_value  
FROM [Katro_soccer].[dbo].[sa_soccer_dataset_advanced]  
Group by nationality;
```

The results pane displays a table with two columns: 'nationality' and 'Average_Market_value'. The data is as follows:

nationality	Average_Market_value
Ghananian	12298308.01
Malawian	1172796.01
Mozambican	14736203.47
Nigerian	15069261.35
South African	12037870.2
Zambian	12777043.09
Zimbabwean	10367909.47

At the bottom of the results pane, a message indicates: "Query executed successfully." and provides system information: "LAPTOP-S2H3VMH0 (16.0 RTM) LAPTOP-S2H3VMH0\pjebul... master 00:00:00 Row:1, Col:1 | 7 rows".

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

The screenshot shows the SQL Server Management Studio interface. A query window titled 'SQLQuery3.s... (Peter (55))' contains the following code:

```
--14. Determine how many player contracts end in each year.  
select contract_end_year,  
       count(*) as Players  
FROM [Katro_soccer].[dbo].[sa_soccer_dataset_advanced]  
group by contract_end_year;
```

The results pane displays a table with two columns: 'contract_end_year' and 'Players'. The data is as follows:

contract_end_year	Players
2026	63
2027	70
2028	52
2029	50
2030	65

At the bottom of the results pane, a message indicates: "Query executed successfully." and provides system information: "LAPTOP-S2H3VMH0 (16.0 RTM) LAPTOP-S2H3VMH0\pjebul... master 00:00:00 Row:1, Col:1 | 5 rows".

15. Identify players whose contracts end next year.

The screenshot shows the SQL Server Management Studio interface with three tabs: 'SQLQuery3.sql' (selected), 'SQLQuery2.s...', and 'SQLQuery1.s...'. The code in 'SQLQuery3.sql' is:

```
--15. Identify players whose contracts end next year.  
select Player_Name,  
       contract_end_year  
  FROM [Kattro_soccer].[dbo].[sa_soccer_dataset_advanced]  
 WHERE Contract_End_Year = YEAR(GETDATE()) + 1;
```

The results pane displays a table with 12 rows:

Player_Name	contract_end_year
Syanda Dlamini	2026
Vusa Molefe	2026
Nokuthula Sthole	2026
Syanda Mahlangu	2026
Nomsa Mahlangu	2026
Thembisa Mokoena	2026
Thabo Sthole	2026
Kagiso Phiri	2026
Thembisa Tahabalala	2026
Mandla Baloyi	2026
Tunelo Mokoena	2026
Thembisa Mashaba	2026

At the bottom, a message indicates: 'Query executed successfully.'

16. Summarize the number of players by injury status.

The screenshot shows the SQL Server Management Studio interface with three tabs: 'SQLQuery3.sql' (selected), 'SQLQuery2.s...', and 'SQLQuery1.s...'. The code in 'SQLQuery3.sql' is:

```
--16. Summarize the number of players by injury status.  
select injury_status,  
       count(*) as players  
  FROM [Kattro_soccer].[dbo].[sa_soccer_dataset_advanced]  
 group by injury_status;
```

The results pane displays a table with 3 rows:

injury_status	players
Healthy	99
Injured	97
Recovering	104

At the bottom, a message indicates: 'Query executed successfully.'

17. Calculate goals per match ratio for each player.

The screenshot shows the SQL Server Management Studio interface with a query window titled "SQLQuery2.s...-peter (55)". The query is as follows:

```
213 --17. Calculate goals per match ratio for each player.
214 select player_name,
215     SUM(goals) AS total_goals,
216     matches_played,
217
218     -- Calculate ratio: Goals / Matches
219     -- We multiply by 1.0 to avoid "Integer Division"
220     CAST(SUM(goals) * 1.0 / ISNULL(matches_played, 0) AS DECIMAL(18, 0)) AS goals_per_match
221
222 FROM [katro_soccer] [dbo].[sa_soccer_dataset_advanced]
223
224 GROUP BY
225     player_name,
226     matches_played;
```

The results table shows the following data:

	player_name	total_goals	matches_played	goals_per_match
1	Mpho Zulu	5	1	5
2	Thembu Zulu	72	3	24
3	Thabo Mthembu	88	5	18
4	Thembu Ndlovu	0	5	0
5	Karabo Hongane	3	8	0
6	Lindwe Radebe	3	8	0
7	Gugu Tshabalala	57	9	6
8	Lindwe Zulu	34	11	3
9	Lindwe Mabaso	67	13	5
10	Tumelo Ngobeni	4	15	0
11	Khanyi Radebe	10	17	1
12	Siyanda Mahlangu	6	18	0

At the bottom of the results pane, it says "Query executed successfully." and provides connection information: LAPTOP-52H3VMH0 (16.0 RTM) | LAPTOP-52H3VMH0\njabul... | master | 00:00:00 | Row: 1, Col: 1 | 300 rows.

18. Count how many players are managed by each agent

The screenshot shows the SQL Server Management Studio interface with a query window titled "SQLQuery2.s...-peter (55)". The query is as follows:

```
228
229
230
231
232
233 --18. Count how many players are managed by each agent.
234
235 select agent,
236     COUNT(*) AS Players
237
238 FROM [katro_soccer] [dbo].[sa_soccer_dataset_advanced]
239
240 GROUP BY agent;
```

The results table shows the following data:

agent	Players
None	62
PlayerFirst	63
ProSport	62
SA Elite Agents	51
SoccerLink Africa	62

At the bottom of the results pane, it says "Query executed successfully." and provides connection information: LAPTOP-52H3VMH0 (16.0 RTM) | LAPTOP-52H3VMH0\njabul... | master | 00:00:00 | Row: 1, Col: 1 | 5 rows.

19. Calculate average height and weight by player position.

The screenshot shows the SQL Server Management Studio interface. A query window titled "SQLQuery2.s...ot connected" contains the following T-SQL code:

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