

# PSL 2024 Data Analysis With SQL

## Total Files:

```
-- Total Data
select *from bating;
select *from bowling;
select *from players;
select *from match_summary;
```

## Data Cleaning:

```
-- Data Cleaning

alter table bating alter column runs int
alter table bating add innings int
alter table bowling alter column 'over 1' int
alter table bowling alter column runs int
alter table bating alter column sixes int
alter table bating alter column fours int

exec sp_rename 'dbo.bowling.[overs 1]' , 'Overs','column';
exec sp_rename 'dbo.players.[name]' , 'names','column';
```

## Data Analysis & Visualization:

### Query:

```
-- show the total highest score in this season

select top 10
player_name as Players ,
sum(innings) as Innings,
sum(runs) as Runs,
round((sum(runs) / sum(innings)) ,2) as Average
from bating
group by player_name
order by sum(runs) desc
```

### Output:

	Players	Innings	Runs	Average	
1	Babar Azam	11	569	51.73	
2	Mohammad Rizwan	12	407	33.92	
3	Rassie van der Duss...	7	364	52	
4	Saim Ayub	11	345	31.36	
5	Colin Munro	10	326	32.6	
6	Saud Shakeel	10	323	32.3	
7	Usman Khan †	4	316	79	
8	Salman Ali Agha	12	310	25.83	
9	Shadab Khan	12	305	25.42	
10	Reeza Hendricks	8	304	38	

## Query:

```
-- show the top bowlers of this season

select top 10
bowlerName as Bowlers,
sum(innings) as Innings,
sum(wickets) as Wickets,
round(sum(economy) / sum(innings),2) as Economy
from bowling
group by bowlerName
order by wickets desc
```

## Output:

	Bowlers	Innings	Wickets	Economy
1	Usama Mir	12	24	8.25
2	Mohammad Ali	12	19	8.43
3	Abrar Ahmed	10	16	7.83
4	Akeal Hosein	10	15	7.7
5	David Willey	11	15	7.5
6	Naseem Shah	11	15	7.57
7	Hasan Ali	10	14	8.53
8	Shadab Khan *	12	14	8.58
9	Shaheen Shah Afridi *	9	14	8.61
10	Mohammad Abbas Afridi	9	13	8.5

## Query:

```
-- show the highest scores of this season

select top 10
player_name as Players,
runs as 'Highest Score',
strikeRate as 'Strike Rate'
from bating
order by runs desc
```

## Output:

	Players	Highest Score	Strike Rate
1	Babar Azam	111	176.19
2	Usman Khan †	106	179.66
3	Rassie van der Duss...	104	200
4	Usman Khan †	100	200
5	Usman Khan †	96	174.55
6	Saim Ayub	88	160
7	Saud Shakeel	88	135.38
8	Aamir Jamal	87	177.55
9	Colin Munro	84	210
10	Mohammad Rizwan	82	138.98

## Query:

```
-- show the best bowling figure in this season

select top 10
bowlerName as Bowler,
Overs as 'Overs',
economy as Economy,
concat(wickets,'/',runs) as 'Best Bowling'
from bowling
order by wickets desc
```

## Output:

	Bowler	Over	Economy	Best Bowling
1	Usama Mir	4	10	6/40
2	Arif Yaqoob	4	6.75	5/27
3	Imad Wasim	4	5.75	5/23
4	Hasan Ali	4	3.75	4/15
5	Zaman Khan	3	10.57	4/37
6	Akeal Hosein	4	5.75	4/23
7	Salman Irshad	4	9.5	3/38
8	Mohammad Ali	4	5.75	3/23
9	Mohammad Ali	4	4.75	3/19
10	Mohammad Abbas Afri...	4	8.25	3/33

## Query:

```
-- show the best bating average

select top 10
player_name as Players ,
sum(innings) as Innings,
sum(runs) as Runs,
round((sum(runs) / sum(innings)) ,2) as Average
from bating
group by player_name
order by Average desc
```

## Output:

	Players	Inning	Runs	Average
1	Usman Khan †	4	316	79
2	Rassie van der Duss...	7	364	52
3	Babar Azam	11	569	51.73
4	Martin Gaptill	3	140	46.67
5	Reeza Hendricks	8	304	38
6	Usman Khan	3	114	38
7	Sahibzada Farhan	5	171	34.2
8	Mohammad Rizwan	12	407	33.92
9	Colin Munro	10	326	32.6
10	Omair Bin Yousuf	3	97	32.33

## Query:

```
-- show the best average in bowling

select top 10
bowlerName as Bowlers,
sum(innings) as Innings,
sum(wickets) as Wickets,
(sum(runs) / sum(innings) * 1.0) as Average
from bowling
group by bowlerName
order by Average asc
```

## Output:

	Bowlers	Inning	Wickets	Average
1	Leus du Plooy	1	0	2.0
2	Saud Shakeel	2	1	7.0
3	Mohammad Amir K...	2	0	8.0
4	Arafat Minhas	1	1	11.0
5	Kieron Pollard	1	0	11.0
6	Aimal Khan	1	0	13.0
7	Ubaid Shah	2	0	15.0
8	Ahsan Hafeez Bhatti	4	3	16.0
9	Shoaib Malik	9	2	16.0
10	Iftikhar Ahmed	7	2	17.0

## Query:

```
-- show the most fifties

select top 10
player_name as Players,
sum(case when runs >= 50 then 1
else 0
end) as Fifties
from batting
group by player_name
order by Fifties desc
```

## Output:

	Players	Fifties
1	Babar Azam	6
2	Mohammad Rizwan	4
3	Rassie van der Duss...	4
4	Colin Munro	3
5	Reeza Hendricks	3
6	Shadab Khan	3
7	Usman Khan †	3
8	Abdullah Shafique	2
9	Dawid Malan	2
10	Jason Roy	2



## Query:

```
-- show the most hundard

select top 3
player_name as Players,
sum(case when runs >= 100 then 1
else 0
end) as Hundard
from bating
group by player_name
order by Hundard desc
```

## Output:

	Players	Hundard
1	Usman Khan †	2
2	Babar Azam	1
3	Rassie van der Duss...	1

## Query:

```
-- show the most economical bowler

select top 10
bowlerName as Bowlers,
sum(innings) as Innings,
sum(wickets) as Wickets,
round(sum(economy) / sum(innings),2) as 'Most Economical'
from bowling
group by bowlerName
order by 'Most Economical' asc
```

## Output:

	Bowlers	Innings	Wickets	Most Economical
1	Leus du Plooy	1	0	2
2	Arafat Minhas	1	1	2.75
3	Shoaib Malik	9	2	6.05
4	Khurram Shahz...	2	3	6.67
5	Mehran Mumtaz	5	5	6.72
6	Zahid Mehmood	6	8	6.96
7	Daniel Mousley	1	0	7.33
8	Usman Tariq	5	2	7.39
9	David Willey	11	15	7.5
10	Saud Shakeel	2	1	7.5

## Query:

```
-- show the which bowlers take whole five wickets

]select top 3
  bowlerName as Bowler,
  sum(innings) as Innings,
  sum(wickets) as Wickets,
  sum(case when wickets >= 5 then 1 else 0 end) as '5Wickets'
from bowling
group by bowlerName
order by '5Wickets' desc
```

## Output:

	Bowler	Innings	Wickets	5Wickets
1	Arif Yaqoob	5	8	1
2	Imad Wasi...	12	12	1
3	Usama Mir	12	24	1

## Query:

```
-- show the most sixes in this session

]select top 10
player_name as Players,
sum(innings) as Innings,
sum(runs) as Runs,
sum(sixes) as 'Most Sixes'
from bating
group by player_name
order by 'Most Sixes' desc
.
```

## Output:

	Players	Innings	Runs	Most Sixes
1	Saim Ayub	11	345	21
2	Iftikhar Ahmed	11	259	17
3	Rassie van der Duss...	7	364	16
4	Kieron Pollard	8	239	15
5	Mohammad Rizwan	12	407	15
6	Saud Shakeel	10	323	15
7	Shadab Khan	12	305	15
8	Azam Khan †	10	226	13
9	Babar Azam	11	569	12
10	Colin Munro	10	326	12

## Query:

```
-- show the most fours in this session

select top 10
player_name as Players,
sum(innings) as Innings,
sum(runs) as Runs,
sum(fours) as 'Most Fours'
from bating
group by player_name
order by 'Most Fours' desc
```

## Output:

	Players	Innings	Runs	Most Fours
1	Babar Azam	11	569	63
2	Usman Khan †	4	316	39
3	Colin Munro	10	326	36
4	James Vince	9	214	34
5	Reeza Hendricks	8	304	34
6	Mohammad Rizw...	12	407	33
7	Jason Roy	10	253	31
8	Saud Shakeel	10	323	31
9	Saim Ayub	11	345	27
10	Salman Ali Agha	12	310	27

## Query:

```
-- show the most boundaries in this session

select top 10
player_name as Players,
sum(innings) as Innings,
sum(runs) as Runs,
(sum(fours) + sum(sixes)) as 'Most Boundaries'
from bating
group by player_name
order by 'Most Boundaries' desc
```

## Output:

	Players	Innings	Runs	Most Boundaries
1	Babar Azam	11	569	75
2	Usman Khan †	4	316	49
3	Colin Munro	10	326	48
4	Mohammad Rizwan	12	407	48
5	Saim Ayub	11	345	48
6	Saud Shakeel	10	323	46
7	Reeza Hendricks	8	304	43
8	Rassie van der Duss...	7	364	41
9	Iftikhar Ahmed	11	259	40
10	Jason Roy	10	253	39

## Query:

```
-- show that most matches winners in this session

select
winner as Teams,
count(winner) as 'Most Winners'
from match_summary
group by winner
order by 'Most Winners' desc
```

## Output:

	Teams	Most Winners
1	Sultans	8
2	United	8
3	Zalmi	6
4	Gladiators	5
5	Kings	4
6	Qalanda...	1

## Query:

```
-- show that the Player Role In this Season

select
playerRole as 'Player Roles',
count(playerRole) as Counts
from players
group by playerRole
order by Counts desc
```

## Output:

	Player Roles	Counts
1	Right hand Bat	32
2	Bowler	28
3	Allrounder	12
4	Left hand Bat	12
5	Wicketkeeper Batt...	8
6	Non	7
7	Middle order Batter	6
8	Opening Batter	6
9	Top order Batter	6
10	Bowling Allrounder	5
11	Batter	4
12	Batting Allrounder	2

**The End**



