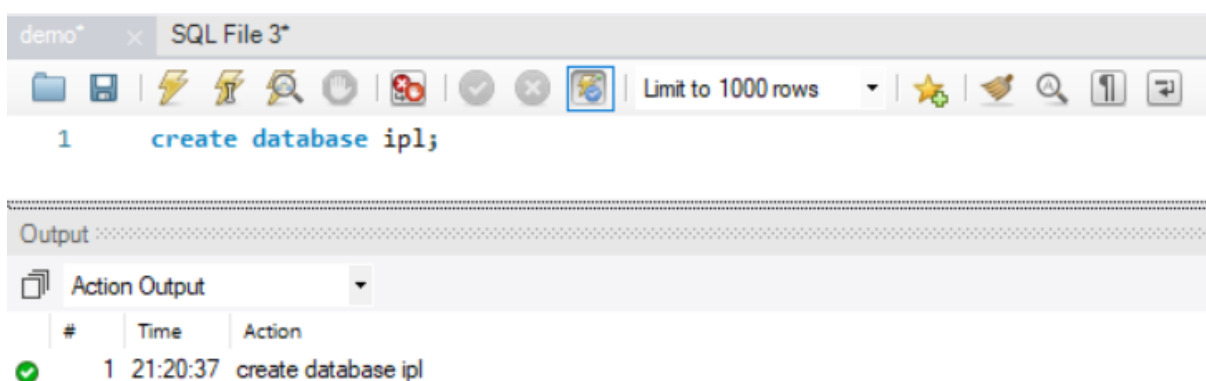# IPL-case study
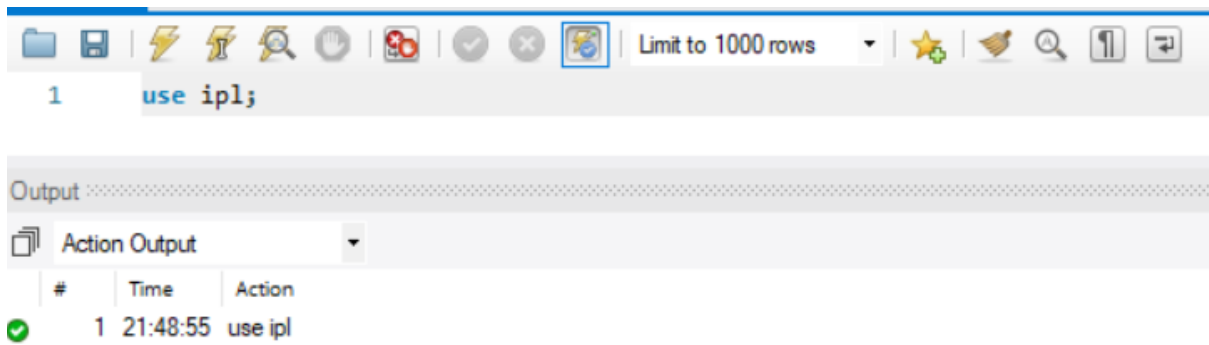

❖ First to create a new database in my SQL work bench
   Syntax: create database IPL;
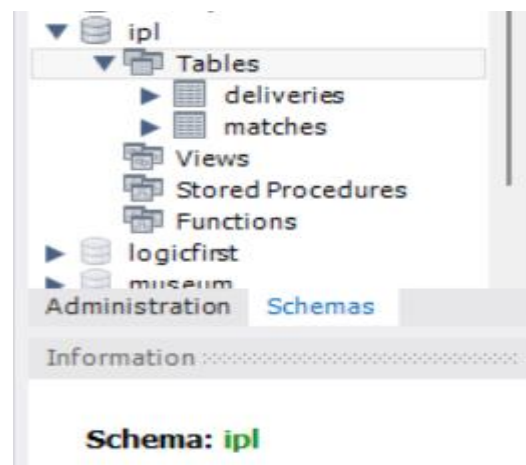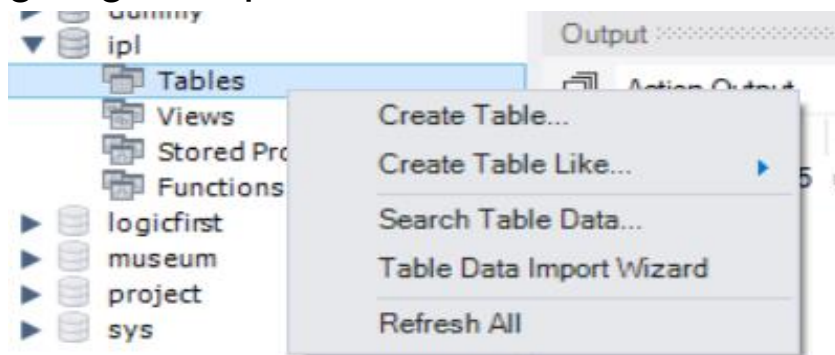

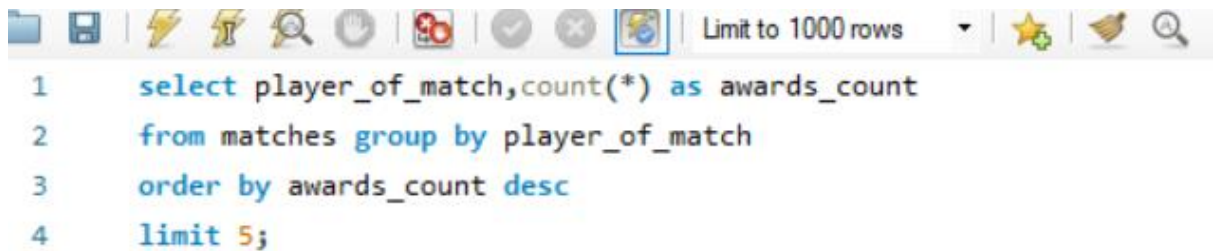❖ Use the database which we have created
   Syntax: use IPL;

> ➤ Import tables for case study operations. we are going to import files deliveries and matches file .
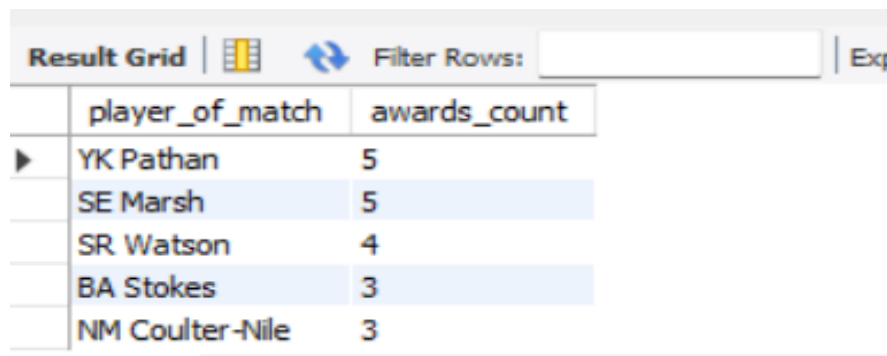
❖ The tables are imported successfully we can see the tables in the Database IPL.

CASE STUDY QUESTIONS

1.Top 5 players with most player of the match award?
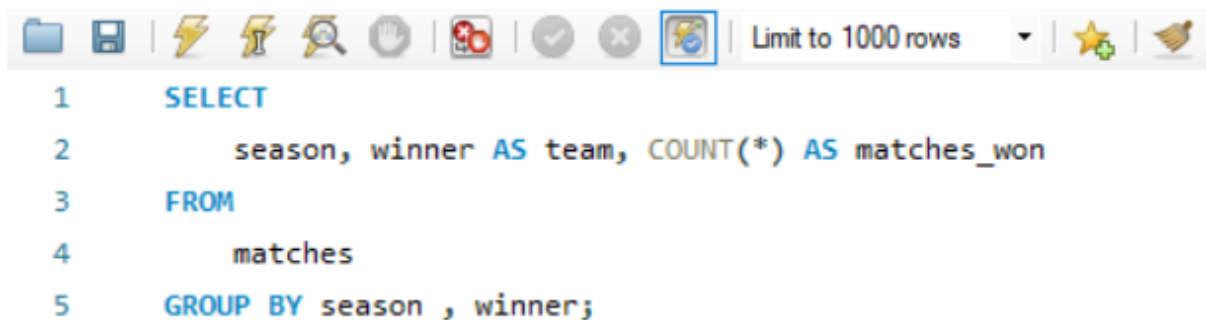
```
1    select player_of_match,count(*) as awards_count
2    from matches group by player_of_match
3    order by awards_count desc
4    limit 5;
```

player_of_match	awards_count
YK Pathan	5
SE Marsh	5
SR Watson	4
BA Stokes	3
NM Coulter-Nile	3

2.How many matches won by each team in each season?

```
1    SELECT
2        season, winner AS team, COUNT(*) AS matches_won
3    FROM
4        matches
5    GROUP BY season , winner;
```

	season	team	matches_won
▶	2017	Sunrisers Hyderabad	8
	2017	Rising Pune Supergiant	10
	2017	Kolkata Knight Riders	9
	2017	Kings XI Punjab	7
	2017	Royal Challengers Bangalore	3
	2017	Mumbai Indians	12
	2017	Delhi Daredevils	6
	2017	Gujarat Lions	4

Result 13

3.what is the average strike rate of the batsmen in the ipl dataset?

```
1    select avg(strike_rate) as average_strike_rate
2    from(
3    select batsman,(sum(total_runs)/count(ball))*100 as strike_rate
4    from deliveries group by batsman)as batsman_stats;
```

average_strike_rate
113.73738442

4.what is the number of matches won by each team batting first versus batting in second?

```
1 ●    select batting_first,count(*) as matches_won
2  ⊖   from(
3  ⊖   select case when win_by_runs>0 then team1
4      else team2
5      end as batting_first
6      from matches
7      where winner!="Tie") as batting_first_teams
8      group by batting_first;
9
```

batting_first	matches_won
Sunrisers Hyderabad	8
Rising Pune Supergiant	10
Kolkata Knight Riders	17
Kings XI Punjab	18
Royal Challengers Bangalore	8

5.Which batsman has the highest strike rate (minimum 200 runs scored)?

```
1 ●    select batsman,(sum(batsman_runs)*100/count(*))
2      as strike_rate
3      from deliveries group by batsman
4      having sum(batsman_runs)>=200
5      order by strike_rate desc
6      limit 1;
```

batsman	strike_rate
V Sehwag	175.7813

6.How many times has each batsman been dismissed by the bowler "Malinga" ?

```sql
select batsman,count(*) as total_dismissals
from deliveries
where player_dismissed is not null
and bowler='SL Malinga'
group by batsman;
```

Result Grid Filter Rows:

batsman	total_dismissals
G Gambhir	8
CA Lynn	9
SA Yadav	4
MK Pandey	6
CR Woakes	4
SP Narine	4
DA Warner	7
S Dhawan	15

7.What is the average percentage of boundaries(four and sixes combined) hit by each batsman ?

```sql
select batsman,avg(case when batsman_runs=4 or batsman_runs=6
then 1 else 0 end)*100 as average_boundaries
from deliveries group by batsman;
```

batsman	average_boundaries
DA Warner	19.2641
S Dhawan	14.8611
MC Henriques	15.0235
Yuvraj Singh	20.8617
DJ Hooda	16.9811
BCJ Cutting	29.6296
CH Gayle	17.8988

8.What is the average number of boundaries hit by each team in each season ?

```
1   select season,batting_team,avg(fours+sixes) as average_boundaries
2   from(select season,match_id,batting_team,
3   sum(case when batsman_runs=4 then 1 else 0 end)as fours,
4   sum(case when batsman_runs=6 then 1 else 0 end) as sixes
5   from deliveries,matches
6   where deliveries.match_id=matches.id
7   group by season,match_id,batting_team) as team_bounsaries
8   group by season,batting_team;
```

batsman	average_boundaries
DA Warner	19.2641
S Dhawan	14.8611
MC Henriques	15.0235
Yuvraj Singh	20.8617
DJ Hooda	16.9811
BCJ Cutting	29.6296
CH Gayle	17.8988

9.How many extras (wides & no-balls)were bowled by each team in each match ?

```
1  ●   select m.id as match_no,d.bowling_team,
2      sum(d.extra_runs) as extras
3      from matches as m
4      join deliveries as d on d.match_id=m.id
5      where extra_runs>0
6      group by m.id,d.bowling_team;
7
```

Result Grid | Filter Rows: [   ] Exp

match_no	bowling_team	extras
1	Royal Challengers Bangalore	7
1	Sunrisers Hyderabad	6
2	Rising Pune Supergiant	8
2	Mumbai Indians	4
3	Kolkata Knight Riders	4
3	Gujarat Lions	15
4	Kings XI Punjab	6

10.which has the best bowling figures(most wicket taken) in a single match ?

```
1  ●   select m.id as match_no,d.bowler,count(*) as wickets_taken
2      from matches as m
3      join deliveries as d on d.match_id=m.id
4      where d.player_dismissed is not null
5      group by m.id,d.bowler
6      order by wickets_taken desc
7      limit 1;
8
9
```
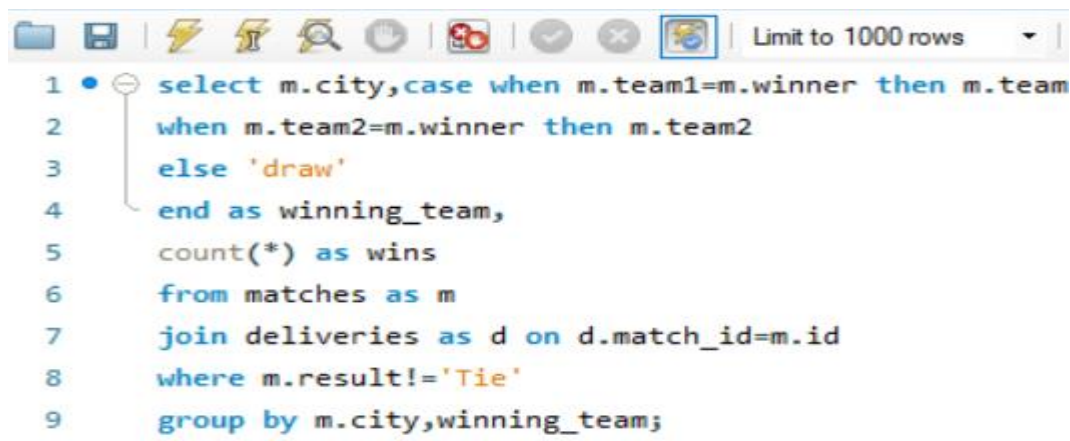
Result Grid | Filter Rows: [   ]

match_no	bowler	wickets_taken
34	JJ Bumrah	34

11.how many matches resulted in a win for each team I each city ?
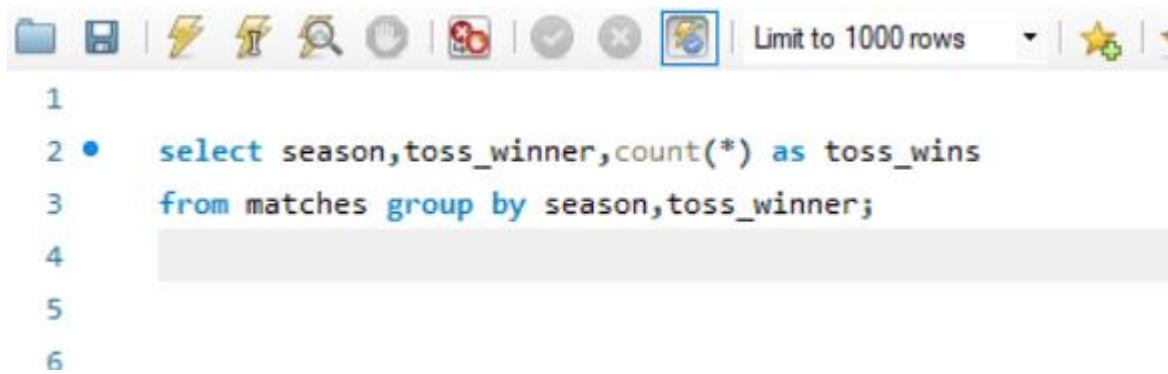
```
   Limit to 1000 rows    ▼
1 ● ⊖  select m.city,case when m.team1=m.winner then m.team
2       when m.team2=m.winner then m.team2
3       else 'draw'
4       end as winning_team,
5       count(*) as wins
6       from matches as m
7       join deliveries as d on d.match_id=m.id
8       where m.result!='Tie'
9       group by m.city,winning_team;
```

Result Grid | Filter Rows: | Export:

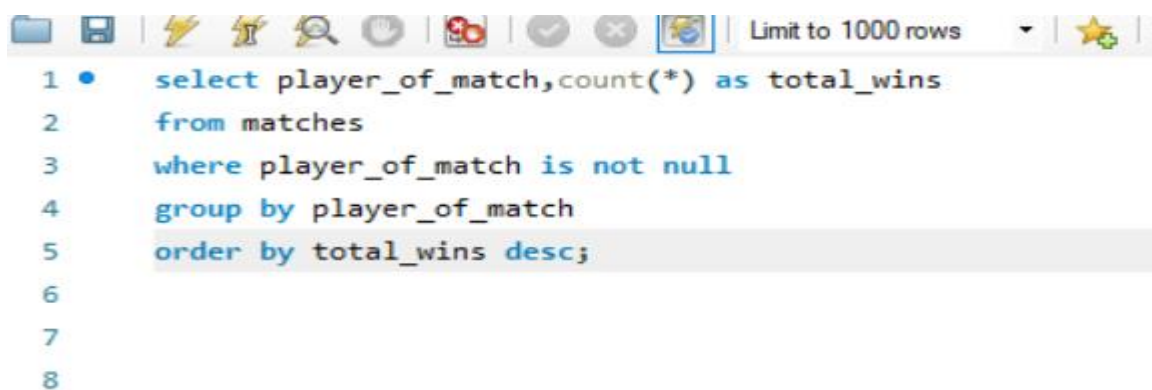| city	winning_team	wins
Hyderabad	Sunrisers Hyderabad	1443
Pune	Rising Pune Supergiant	1152
Rajkot	Kolkata Knight Riders	218
Indore	Kings XI Punjab	459
Bangalore	Royal Challengers Bangalore	492
Mumbai	Mumbai Indians	2038
Pune	Delhi Daredevils	226
Kolkata	Kolkata Knight Riders	1811
Bangalore	Mumbai Indians	667
Rajkot	Gujarat Lions	236
Delhi	Delhi Daredevils	1927

12.How many times did each team win the toss in each season?

```
1
2 ●    select season,toss_winner,count(*) as toss_wins
3      from matches group by season,toss_winner;
4
5
6
```

season	toss_winner	toss_wins
2017	Royal Challengers Bangalore	9
2017	Rising Pune Supergiant	6
2017	Kolkata Knight Riders	9
2017	Kings XI Punjab	4
2017	Sunrisers Hyderabad	5
2017	Mumbai Indians	11
2017	Gujarat Lions	7
2017	Delhi Daredevils	8
2008	Royal Challengers Bangalore	5
2008	Chennai Super Kings	5
2008	Rajasthan Royals	11

13.How many matches did each player win the "player of the match" award?

```
1 ●    select player_of_match,count(*) as total_wins
2      from matches
3      where player_of_match is not null
4      group by player_of_match
5      order by total_wins desc;
6
7
8
```

player_of_match	total_wins
YK Pathan	5
SE Marsh	5
SR Watson	4
BA Stokes	3
NM Coulter-Nile	3
MS Dhoni	3
AC Gilchrist	3
RV Uthappa	2
JD Unadkat	2
Rashid Khan	2
N Rana	2

14.which team has the highest total score in a single match?

```
1 ● select m.season,m.id as match_no,d.batting_team,
2   sum(d.total_runs) as total_score
3   from matches as m
4   join deliveries as d on d.match_id=m.id
5   group by m.season,m.id,d.batting_team
6   order by total_score desc
7   limit 1;
8
```

season	match_no	batting_team	total_score
2008	61	Chennai Super Kings	240

15.Which batsman has scored the most runs in a single match ?

```
1 •      select m.season,m.id as match_no,d.batsman,
2        sum(d.batsman_runs) as total_runs
3        from matches as m
4        join deliveries as d on d.match_id=m.id
5        group by m.season,m.id,d.batsman
6        order by total_runs desc
7        limit 1;
8
```

Result Grid | Filter Rows: | Ex

season	match_no	batsman	total_runs
2008	60	BB McCullum	158