

## **Task-2: Problem Statement 2-SQL**

### **1. Create a table named 'matches' with appropriate data types for columns.**

```
CREATE TABLE matches (  
id int NOT NULL PRIMARY KEY,  
city varchar(40),  
date DATE,  
player_of_match varchar(40),  
venue varchar(80),  
neutral_Venue int,  
team1 varchar(80),  
team2 varchar(80),  
toss_winner varchar(80),  
toss_decision varchar(20),  
winner varchar(100),  
result varchar(40),  
result_margin int,  
eliminator varchar(10),  
method varchar(10),  
umpire1 varchar(40),  
umpire2 varchar(40)  
);
```

### **2. Create a table named 'deliveries' with appropriate data types for columns.**

```
CREATE TABLE deliveries (  
id int,  
inning int,  
over int,  
ball int,  
batsman varchar(40),  
non_striker varchar(40),  
bowler varchar(40),
```

batsman\_runs int,  
 extra\_runs int,  
 total\_runs int,  
 is\_wicket int,  
 dismissal\_kind varchar(40),  
 player\_dismissed varchar(40),  
 fielder varchar(100),  
 extras\_type varchar(40),  
 batting\_team varchar(40),  
 bowling\_team varchar(40),  
 FOREIGN KEY (id) REFERENCES matches(id)  
 );

### 3. Import data from CSV file 'IPL\_matches.csv' attached in resources to 'matches'.

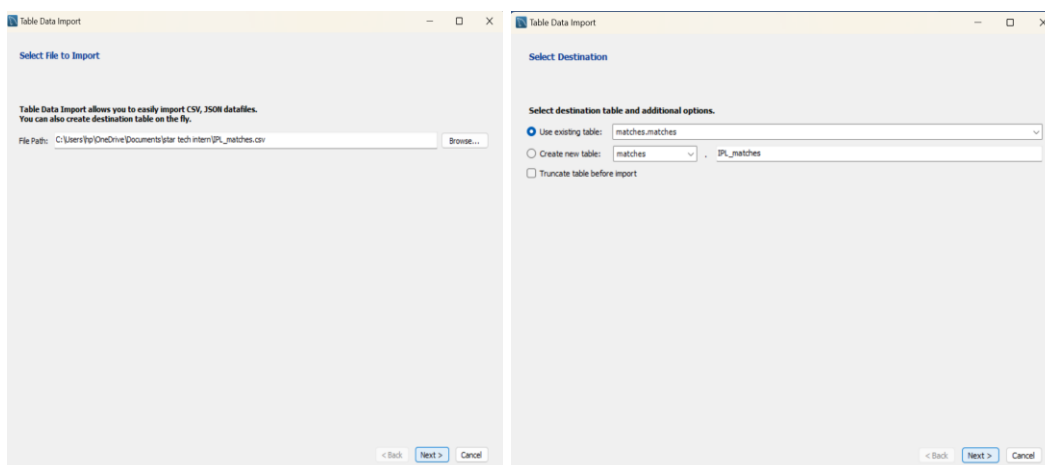
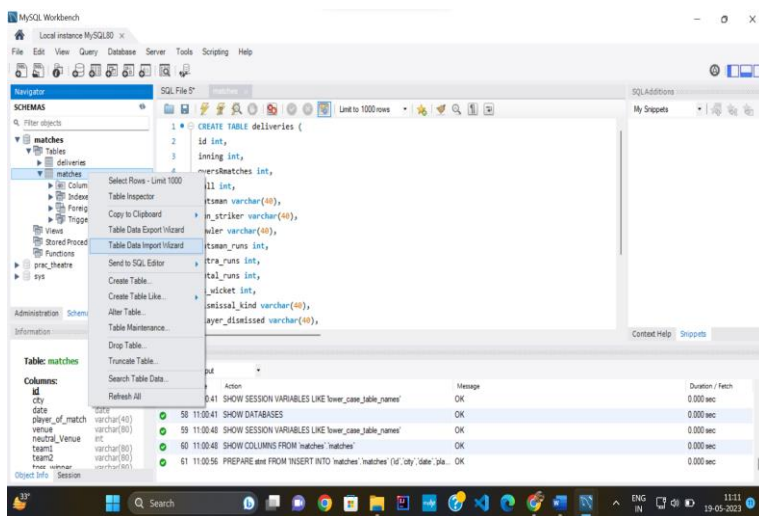


Table Data Import

Configure Import Settings

Detected file format: csv

Encoding: utf-8

Columns:

Source Column	Dest Column
<input checked="" type="checkbox"/> id	id
<input checked="" type="checkbox"/> city	city
<input checked="" type="checkbox"/> date	date
<input checked="" type="checkbox"/> player_of_match	player_of_match
<input checked="" type="checkbox"/> venue	venue
<input checked="" type="checkbox"/> neutral_venue	neutral_Venue

id	city	date	player_of...	venue	neutral_ve...	team1	team2	loss_winner	loss_de
335982	Bangalore	2008-04-18	BB McCullum	M Chinnas...	0	Royal Chall...	Kolkata Kn...	Royal Chall...	field
335983	Chandigarh	2008-04-19	MEK Hussey	Punjab Cric...	0	Kings XI Pu...	Chennai Su...	Chennai Su...	bat
335984	Delhi	2008-04-19	MF Maharoo	Feroz Shah...	0	Delhi Dare...	Rajasthan...	Rajasthan...	bat
335985	Mumbai	2008-04-20	MV Boucher	Wankhede...	0	Mumbai In...	Royal Chall...	Mumbai In...	bat

< Back Next > Cancel

Table Data Import

Import Data

The following tasks will now be performed. Please monitor the execution.

☐ Prepare Import  
☐ Import data file

Click [Next >] to execute.

Show Logs

< Back Next > Cancel

MySQL Workbench

Table Data Import

Import Data

The following tasks will now be performed. Please monitor the execution.

☒ Prepare Import  
☒ Import data file

Data Import

Message Log

- Data import
- Data import
- Data import
- Data import
- Data import
- Data import
- Data import
- Data import
- Data import
- Data import
- Data import

Hide Logs

< Back Next > Cancel

SQL Additions

My Snippets

Context Help Snippets

Duration / Fetch
0.000 sec
0.000 sec
0.000 sec
0.000 sec
0.000 sec

Table Data Import

Import Results

File C:\Users\p\OneDrive\Documents\star tech intern\IP\_matches.csv was imported in 1617.48 s

Table matches.matches was created

816 records imported

MySQL Workbench

Local instance MySQL80

Navigator

SCHEMAS

- matches
  - Tables
    - deliveries
    - matches
  - Columns
  - Indexes
  - Foreign Keys
  - Triggers
  - Views
  - Stored Procedures
  - Functions
  - prac\_theatre
  - sys

Administration Schemas

Information

Table: matches

Columns:

- id: int PK
- city: varchar(40)
- date: date
- player\_of\_match: varchar(40)
- venue: varchar(80)
- neutral\_Venue: varchar(80)
- team1: int
- team2: varchar(80)
- loss\_winner: varchar(80)
- loss\_de: varchar(80)

Object Info Session

SQL File 5\*

matches deliveries matches

Limit to 1000 rows

SELECT \* FROM matches.matches;

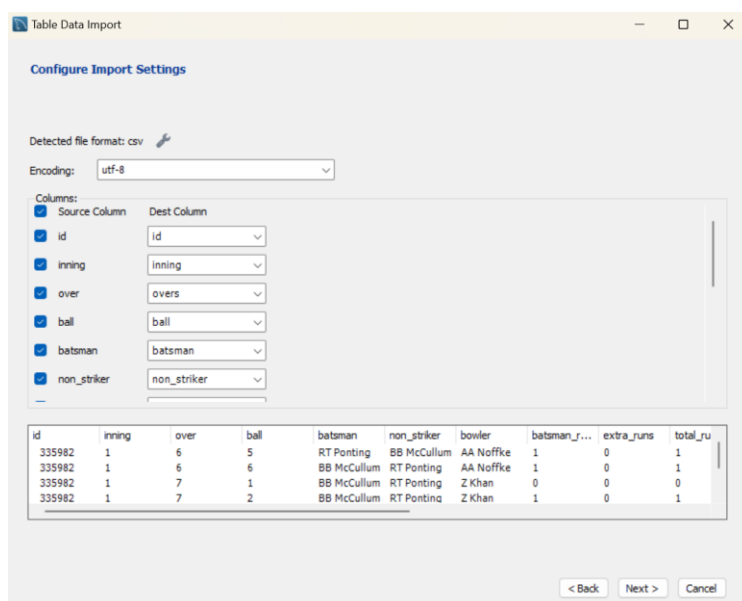
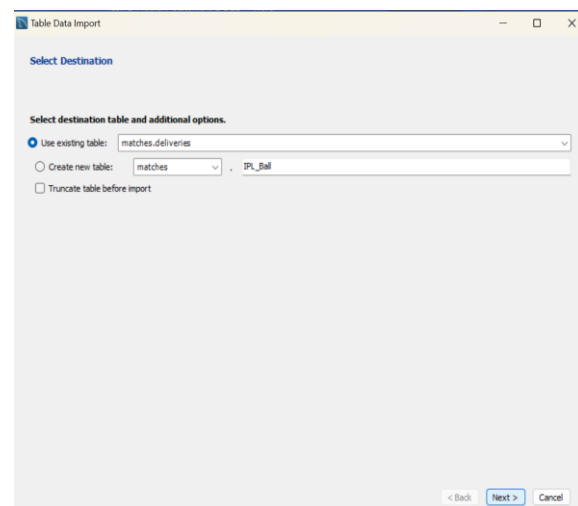
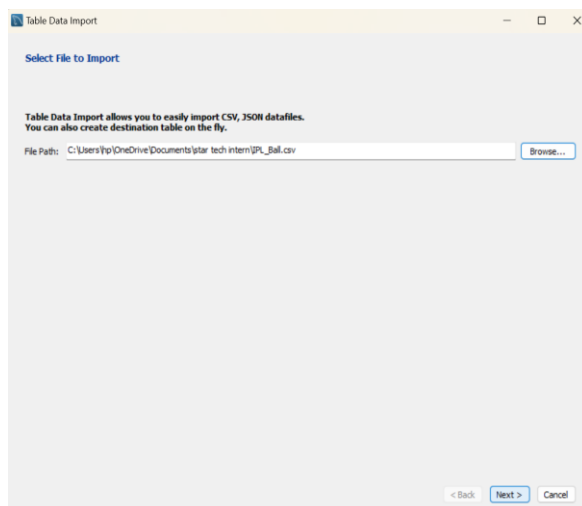
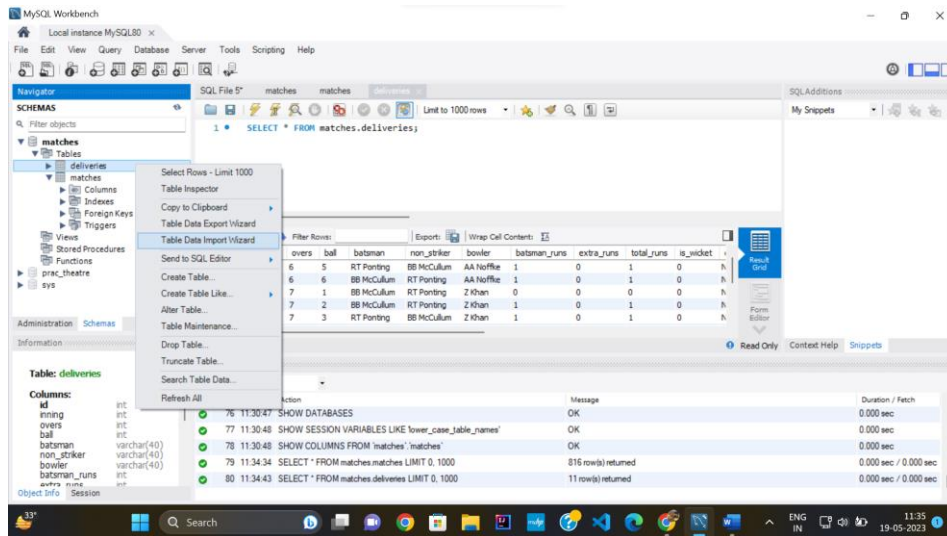
Result Grid

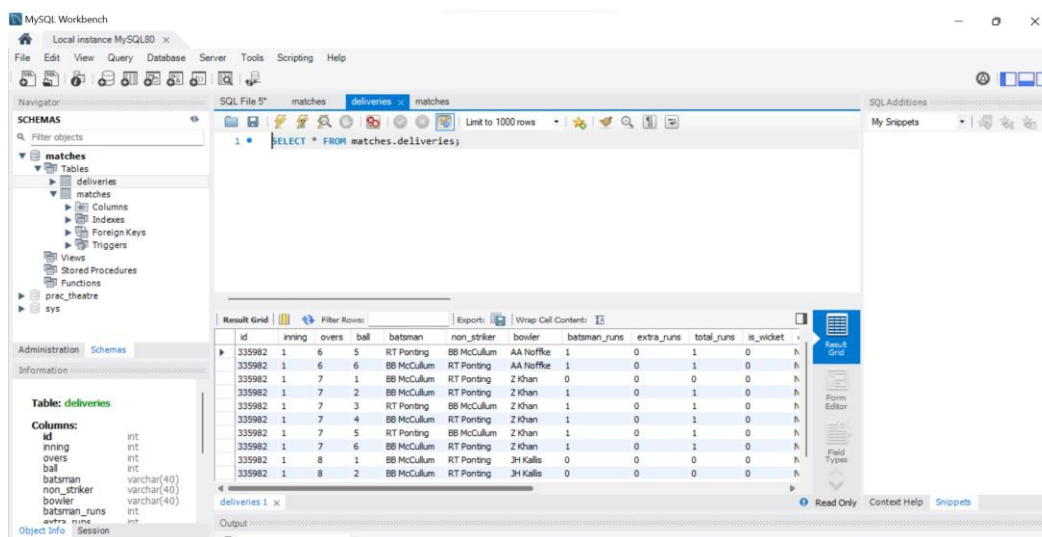
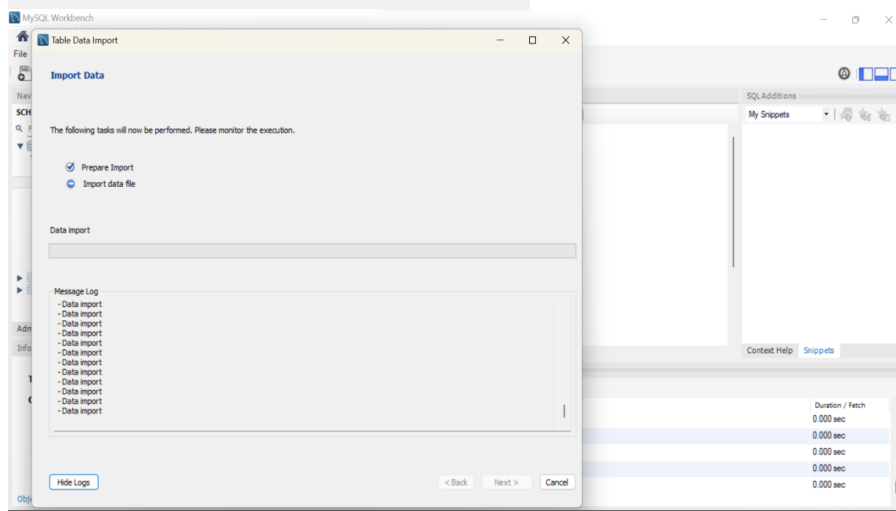
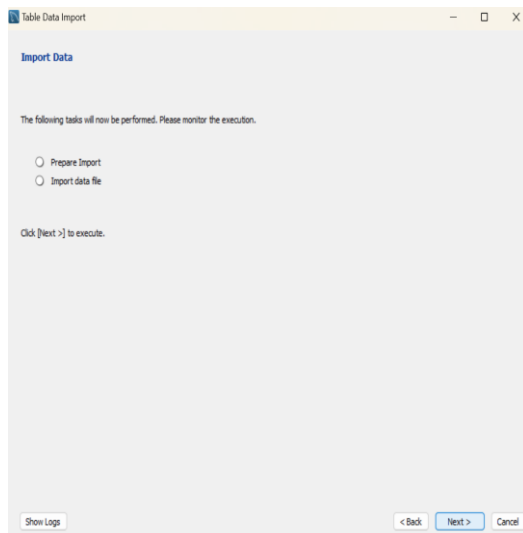
id	city	date	player_of_match	venue	neutral_Venue	team1
335982	Bangalore	2008-04-18	BB McCullum	M Chinnaswamy Stadium	0	Royal Challengers Bangalore
335983	Chandigarh	2008-04-19	MEK Hussey	Punjab Cricket Association Stadium, Mohali	0	Kings XI Punjab
335984	Delhi	2008-04-19	MF Maharoo	Feroz Shah Kotla	0	Delhi Daredevils
335985	Mumbai	2008-04-20	MV Boucher	Wankhede Stadium	0	Mumbai Indians
335986	Kolkata	2008-04-20	DJ Hussey	Eden Gardens	0	Kolkata Knight Riders
335987	Japur	2008-04-21	SR Watson	Sawai Mansingh Stadium	0	Rajasthan Royals
335988	Hyderabad	2008-04-22	V Sehwag	Rajiv Gandhi International Stadium, Uppal	0	Deccan Chargers
335989	Chennai	2008-04-23	ML Hayden	M A Chidambaram Stadium, Chennai	0	Chennai Super Kings
335990	Hyderabad	2008-04-24	YK Pathan	Rajiv Gandhi International Stadium, Uppal	0	Deccan Chargers
335991	Chandigarh	2008-04-25	KC Sangakkara	Punjab Cricket Association Stadium, Mohali	0	Kings XI Punjab

matches 1 x

Output

#### 4. Import data from CSV file 'IPL\_Ball.csv' attached in resources to 'deliveries'.





## 5. Select the top 20 rows of the deliveries table.

SELECT \* FROM matches.deliveries LIMIT 20;

id	inning	overs	ball	batsman	non_striker	bowler	batsman_runs	extra_runs	total_runs	is_wicket	dismissal_kind	player_dismissed	fielder
335982	1	6	5	RT Ponting	BB McCullum	AA Noffke	1	0	1	0	NA	NA	NA
335982	1	6	6	BB McCullum	RT Ponting	AA Noffke	1	0	1	0	NA	NA	NA
335982	1	7	1	BB McCullum	RT Ponting	Z Khan	0	0	0	0	NA	NA	NA
335982	1	7	2	BB McCullum	RT Ponting	Z Khan	1	0	1	0	NA	NA	NA
335982	1	7	3	RT Ponting	BB McCullum	Z Khan	1	0	1	0	NA	NA	NA
335982	1	7	4	BB McCullum	RT Ponting	Z Khan	1	0	1	0	NA	NA	NA
335982	1	7	5	RT Ponting	BB McCullum	Z Khan	1	0	1	0	NA	NA	NA
335982	1	7	6	BB McCullum	RT Ponting	Z Khan	1	0	1	0	NA	NA	NA
335982	1	8	1	BB McCullum	RT Ponting	JH Kallis	0	0	0	0	NA	NA	NA
335982	1	8	2	BB McCullum	RT Ponting	JH Kallis	0	0	0	0	NA	NA	NA
335982	1	8	3	BB McCullum	RT Ponting	JH Kallis	0	0	0	0	NA	NA	NA
335982	1	6	5	RT Ponting	BB McCullum	AA Noffke	1	0	1	0	NA	NA	NA
335982	1	6	6	BB McCullum	RT Ponting	AA Noffke	1	0	1	0	NA	NA	NA
335982	1	7	1	BB McCullum	RT Ponting	Z Khan	0	0	0	0	NA	NA	NA
335982	1	7	2	BB McCullum	RT Ponting	Z Khan	1	0	1	0	NA	NA	NA

## 6. Select the top 20 rows of the matches table.

SELECT \* FROM matches.matches LIMIT 20;

id	city	date	player_of_match	venue	neutral_Venue	team1	team2
335982	Bangalore	2008-04-18	BB McCullum	M Chinnaswamy Stadium	0	Royal Challengers Bangalore	Kolkata Knight Riders
335983	Chandigarh	2008-04-19	MEK Hussey	Punjab Cricket Association Stadium, Mohali	0	Kings XI Punjab	Chennai Super Kings
335984	Delhi	2008-04-19	MF Maharroof	Feroz Shah Kotla	0	Delhi Daredevils	Rajasthan Royals
335985	Mumbai	2008-04-20	MV Boucher	Wankhede Stadium	0	Mumbai Indians	Royal Challengers Bangalore
335986	Kolkata	2008-04-20	DJ Hussey	Eden Gardens	0	Kolkata Knight Riders	Deccan Chargers
335987	Jaipur	2008-04-21	SR Watson	Sawai Mansingh Stadium	0	Rajasthan Royals	Kings XI Punjab
335988	Hyderabad	2008-04-22	V Sehwag	Rajiv Gandhi International Stadium, Uppal	0	Deccan Chargers	Delhi Daredevils
335989	Chennai	2008-04-23	ML Hayden	MA Chidambaram Stadium, Chepauk	0	Chennai Super Kings	Mumbai Indians
335990	Hyderabad	2008-04-24	YK Pathan	Rajiv Gandhi International Stadium, Uppal	0	Deccan Chargers	Rajasthan Royals
335991	Chandigarh	2008-04-25	KC Sangakkara	Punjab Cricket Association Stadium, Mohali	0	Kings XI Punjab	Mumbai Indians
335992	Bangalore	2008-04-26	SR Watson	M Chinnaswamy Stadium	0	Royal Challengers Bangalore	Rajasthan Royals
335993	Chennai	2008-04-26	JDP Oram	MA Chidambaram Stadium, Chepauk	0	Chennai Super Kings	Kolkata Knight Riders
335994	Mumbai	2008-04-27	AC Gilchrist	Dr DY Patil Sports Academy	0	Mumbai Indians	Deccan Chargers
335995	Chandigarh	2008-04-27	SM Katich	Punjab Cricket Association Stadium, Mohali	0	Kings XI Punjab	Delhi Daredevils
335996	Bangalore	2008-04-28	MS Dhoni	M Chinnaswamy Stadium	0	Royal Challengers Bangalore	Chennai Super Kings
335997	Kolkata	2008-04-29	ST Jayasuriya	Eden Gardens	0	Kolkata Knight Riders	Mumbai Indians

## 7. Fetch data of all the matches played on 2nd May 2013.

SELECT \* FROM matches.matches where date='2013-05-02';

id	city	date	player_of_match	venue	neutral_Venue	team1	team2	toss_winner
598041	Chennai	2013-05-02	SK Raina	MA Chidambaram Stadium, Chepauk	0	Chennai Super Kings	Kings XI Punjab	Chennai Super Kings
598042	Pune	2013-05-02	AB de Villiers	Subrata Roy Sahara Stadium	0	Pune Warriors	Royal Challengers Bangalore	Royal Challengers Bangalore

## 8. Fetch data of all the matches where the margin of victory is more than 100 runs.

SELECT \* FROM matches.matches where result\_margin>100;

	toss_winner	toss_decision	winner	result	result_margin	eliminator	method	umpire 1	umpire
Kolkata Knight Riders	Royal Challengers Bangalore	field	Kolkata Knight Riders	runs	140	N	NA	Asad Rauf	RE Koe
Rajasthan Royals	Delhi Daredevils	field	Rajasthan Royals	runs	105	N	NA	BF Bowden	RE Koe
Kings XI Punjab	Kings XI Punjab	bat	Kings XI Punjab	runs	111	N	NA	Asad Rauf	AM Sah
Royal Challengers Bangalore	Pune Warriors	field	Royal Challengers Bangalore	runs	130	N	NA	Aleem Dar	C Sham
Kings XI Punjab	Kings XI Punjab	field	Royal Challengers Bangalore	runs	138	N	NA	RK Illingworth	VA Kulk
Gujarat Lions	Gujarat Lions	field	Royal Challengers Bangalore	runs	144	N	NA	AY Dandekar	VK Shar
Delhi Daredevils	Delhi Daredevils	field	Mumbai Indians	runs	146	N	NA	Nitin Menon	CK Nar
Kolkata Knight Riders	Kolkata Knight Riders	field	Mumbai Indians	runs	102	N	NA	KN Ananthapadmanabhan	AK Cha
Royal Challengers Bangalore	Royal Challengers Bangalore	field	Sunrisers Hyderabad	runs	118	N	NA	KN Ananthapadmanabhan	S Ravi

## 9. Fetch data of all the matches where the final scores of both teams tied and order it in descending order of the date.

SELECT \* FROM matches.matches where result='tie' order by date DESC;

	id	city	date	player_of_match	venue	neutral_Venue	team1	team2	toss_win
	1216512	Abu Dhabi	2020-10-18	LH Ferguson	Sheikh Zayed Stadium	0	Kolkata Knight Riders	Sunrisers Hyderabad	Sunrisers
	1216517	Dubai	2020-10-18	KL Rahul	Dubai International Cricket Stadium	0	Mumbai Indians	Kings XI Punjab	Mumbai Ir
	1216547	Dubai	2020-09-28	AB de Villiers	Dubai International Cricket Stadium	0	Royal Challengers Bangalore	Mumbai Indians	Mumbai Ir
	1216493	Dubai	2020-09-20	MP Stoinis	Dubai International Cricket Stadium	0	Delhi Capitals	Kings XI Punjab	Kings XI P
	1178426	Mumbai	2019-05-02	JJ Bumrah	Wankhede Stadium	0	Mumbai Indians	Sunrisers Hyderabad	Mumbai Ir
	1175365	Delhi	2019-03-30	PP Shaw	Feroz Shah Kotla	0	Delhi Capitals	Kolkata Knight Riders	Delhi Capi
	1082625	Rajkot	2017-04-29	KH Pandya	Saurashtra Cricket Association Stadium	0	Gujarat Lions	Mumbai Indians	Gujarat Li
	829741	Ahmedabad	2015-04-21	SE Marsh	Sardar Patel Stadium, Motera	0	Rajasthan Royals	Kings XI Punjab	Kings XI P
	729315	Abu Dhabi	2014-04-29	JP Faulkner	Sheikh Zayed Stadium	1	Kolkata Knight Riders	Rajasthan Royals	Rajasthar
	598017	Bangalore	2013-04-16	V Kohli	M Chinnaswamy Stadium	0	Royal Challengers Bangalore	Delhi Daredevils	Royal Ch
	598004	Hyderabad	2013-04-07	GH Vihari	Rajiv Gandhi International Stadium, U...	0	Sunrisers Hyderabad	Royal Challengers B...	Royal Ch
	419121	Chennai	2010-03-21	J Theron	MA Chidambaram Stadium, Chepauk	0	Chennai Super Kings	Kings XI Punjab	Chennai S
	392190	Cape Town	2009-04-23	YK Pathan	Newlands	1	Kolkata Knight Riders	Rajasthan Royals	Kolkata Kr

## 10. Get the count of cities that have hosted an IPL match.

SELECT count(distinct city) FROM matches.matches;

	count(distinct city)
	33