

ISS Lab Task: SQL

April 25,2023

1 Task

You have been provided with a file *ipl.db* which is a database on Indian Premier League. These kind of databases are used by different commentators and cricket analysts and it might play an important role while building teams in fantasy league. The attached image contains the schema of this database.

For this lab, you have to use SQLite queries to solve the following questions.

1.1 Print Umpire names (15 marks)

Print any 10 umpires from the umpires table. LIMIT clause should be used.

Output:

Print "Umpire names: " followed by the names of the umpires(separated by commas in a single line)

1.2 Umpire countries (15 marks)

Find the number of unique countries that the umpires belong to.

Output:

Print "The number of countries the umpires belong to are: " followed by the number of countries.

1.3 Venue names (15 marks)

Print the venue names in ascending alphabetical order.

Output:

Print "Venue names: " followed by the names of the venues(separated by commas in a single line)

1.4 Australian players (15 marks)

Print the names of all the Australian players in the database. The *country_id* of Australia is 5.

Output:

Print "Australian players: " followed by the names of the players(separated by commas in a single line)

1.5 CSK or RCB (40 marks)

How many matches did the team "Chennai Super Kings" win more than "Royal Challengers Bangalore" in total?

You can use multiple SQL queries for this question.

Output:

Print "The number of matches CSK won more than RCB: " followed by the integer answer.

1.6 Extra questions (0 marks)

After you are done with the above questions, you can try to perform queries for the questions below. They need not to be submitted as they are not graded.

- How many players are younger than 25?
- What is the win percentage at Wankhede stadium after winning the toss?
- What are the top 10 highest scores in IPL? Which players have most centuries in IPL? How many players have made a half century and taken 3 wickets in the same match? Which player has the most 5 wicket hauls in IPL?
- In how many matches did RCB lose after Virat Kohli scored a half century but not a century? How many of them happened while RCB was chasing?
- What is the strike-rate of MS Dhoni against the left ball spinners? How much does it become in the death overs?