**SQL QUERIES FOR IPL DATA**

**Query to create table and columns for table ipl\_matches\_2008\_2022**

CREATE TABLE ipl\_matches\_2008\_2022

(

id int8 PRIMARY KEY,

city varchar(50),

match\_date date,

season varchar(50),

match\_number varchar(50),

team1 varchar(50),

team2 varchar(50),

venue varchar(100),

toss\_winner varchar(50),

toss\_decision varchar(50),

superover varchar(50),

winning\_team varchar(50),

won\_by varchar(50),

margin varchar(50),

method varchar(50),

player\_of\_match varchar(50),

umpire1 varchar(50),

umpire2 varchar(50)

)

**Query to copy all data for table ipl\_matches\_2008\_2022**

COPY ipl\_matches\_2008\_2022 FROM 'D:\ipl\_matches\_2008\_2022.csv' DELIMITER ',' CSV HEADER;

*\*Note-* ***'D:\ipl\_matches\_2008\_2022.csv'*** *🡪 this is the location path of the file where it is placed, we need to import this file data in our table. It will be different for you if you store data other than D drive or in any folder inside D drive. Make sure you use correct path.*

**Query to create table and columns for table ipl\_ball\_by\_ball\_2008\_2022**

CREATE TABLE ipl\_ball\_by\_ball\_2008\_2022

(

id int8 NOT NULL,

innings int8,

overs int8,

ball\_number int8,

batter varchar(50),

bowler varchar(50),

non\_striker varchar(50),

extra\_type varchar(50),

batsman\_run int8,

extras\_run int8,

total\_run int8,

non\_boundry int8,

iswicket\_delivery int8,

player\_out varchar(50),

dismisal\_kind varchar(50),

fielders\_involved varchar(50),

batting\_team varchar(50)

)

**Query to copy all data for table ipl\_ball\_by\_ball\_2008\_2022**

COPY ipl\_ball\_by\_ball\_2008\_2022 FROM 'D:\ipl\_ball\_by\_ball\_2008\_2022.csv' DELIMITER ',' CSV HEADER;

*\*Note-* ***'D:\ipl\_ball\_by\_ball\_2008\_2022.csv'****🡪 this is the location path of the file where it is placed, we need to import this file data in our table. It will be different for you if you store data other than D drive or in any folder inside D drive. Make sure you use correct path.*

*COPY ipl\_matches\_2008\_2022*

*FROM 'D:\ipl\_matches\_2008\_2022\_add.csv'*

*DELIMITER ','*

*CSV HEADER;*

*COPY ipl\_ball\_by\_ball\_2008\_2022*

*FROM 'D:\ipl\_ball\_by\_ball\_2008\_2022\_add.csv'*

*DELIMITER ','*

*CSV HEADER;*

*(for adding additional data)*

*And refresh after adding on Power BI*

DAX Queries-

Calendar Table = CALENDAR(MIN('public ipl\_matches\_2008\_2022'[match\_date]),MAX('public ipl\_matches\_2008\_2022'[match\_date]))

*( to get particular date of each match)*

Year = YEAR('Calendar Table'[Date])

*( to extract the year of match, or the season of the IPL)*

Title Winner = VAR max\_date=CALCULATE(MAX('Calendar Table'[Date]),ALLSELECTED('public ipl\_ball\_by\_ball\_2008\_2022'),VALUES('public ipl\_matches\_2008\_2022'))

VAR Title\_winner = CALCULATE(SELECTEDVALUE('public ipl\_matches\_2008\_2022'[winning\_team]),'Calendar Table'[Date] = max\_date)

RETURN Title\_winner

*(to get each season’s tiltle winner)*

Batter Runs = CONCATENATE(SUM('public ipl\_ball\_by\_ball\_2008\_2022'[batsman\_run])), " Runs")

*(to get the word “runs” after total runs by orange cap winner)*

Bowler Wickets = CONCATENATE(SUM('public ipl\_ball\_by\_ball\_2008\_2022'[iswicket\_delivery]), "wickets")

*(to get the word “wickets” after total wickets by purple cap winner)*

Strike Rate = SUM('public ipl\_ball\_by\_ball\_2008\_2022'[batsman\_run])/COUNT('public ipl\_ball\_by\_ball\_2008\_2022'[ball\_number])\*100

*(to get the strike rate of required batsman)*

Economy = DIVIDE(

    SUMX(

    FILTER('public ipl\_ball\_by\_ball\_2008\_2022','public ipl\_ball\_by\_ball\_2008\_2022'[extra\_type]<>"legbyes" && 'public ipl\_ball\_by\_ball\_2008\_2022'[extra\_type]<>"byes"), 'public ipl\_ball\_by\_ball\_2008\_2022'[total\_run]), (COUNT('public ipl\_ball\_by\_ball\_2008\_2022'[overs]))/6)

*(to get the economy of each bowler)*

*Economy= no. of runs a bowler is expected to give in an over.*

Average by Bowler = DIVIDE(

    SUMX(

    FILTER('public ipl\_ball\_by\_ball\_2008\_2022','public ipl\_ball\_by\_ball\_2008\_2022'[extra\_type]<>"legbyes" && 'public ipl\_ball\_by\_ball\_2008\_2022'[extra\_type]<>"byes"), 'public ipl\_ball\_by\_ball\_2008\_2022'[total\_run]), SUM('public ipl\_ball\_by\_ball\_2008\_2022'[iswicket\_delivery])

)

*(to get average of bowler)*

Bowling SR = COUNT('public ipl\_ball\_by\_ball\_2008\_2022'[bowler])/SUM('public ipl\_ball\_by\_ball\_2008\_2022'[iswicket\_delivery])

*(to get the bowling strike rate)*

Matches won on toss decision = CALCULATE(COUNTROWS('public ipl\_matches\_2008\_2022'),'public ipl\_matches\_2008\_2022'[toss\_winner] = 'public ipl\_matches\_2008\_2022'[winning\_team])