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/***
STEPS:
1.CREATE DATABASE AND USE IT
2.IMPORT BOTH CSV FILE
3.ANALYSING DATA
4.WORING ON DIFFERENT QUESTIONS
***/
--SETUP DATABASE
**--Create a database with the name of SQLproject
**--Imoprting the IPL_BALL datset from the coumputer
BULK INSERT IPL_BALL
FROM 'G:\IPL_EDA_Using_SQL-main\Datasets\IPL_BALL.csv'
WITH ( format ='csv',
    FIRSTROW = 2,
    FIELDTERMINATOR = ',',
    ROWTERMINATOR = '\n'
);
***--update the datatype of date column which exists in IPL_MATCHES dataset and import➤
   the file from coumputer
BULK INSERT IPL_MATCHES
FROM 'G:\IPL_EDA_Using_SQL-main\Datasets\IPL_MATCHES.csv'
WITH ( format ='csv',
    FIRSTROW = 1,
    FIELDTERMINATOR = ',',
    ROWTERMINATOR = '\n'
);
UPDATE IPL MATCHES
SET Date = CONVERT(DATE, Date, 103)
/******SOME DATA ANALYSIS******/
--SEEING IMPORTED TABLES
SELECT * FROM IPL_BALL;
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SELECT * FROM IPL_MATCHES;
--NUMBER OF ROWS IN TABLES
SELECT COUNT(*) AS NO_OF_ROWS
FROM IPL_MATCHES;
SELECT COUNT(*) AS NO_OF_ROWS
FROM IPL_BALL;
--NUMBER OF COLUMNS IN TABLES
SELECT COUNT(*) as NO OF COLUMNS FROM information schema.columns WHERE table name = →
  'IPL_MATCHES';
SELECT COUNT(*) as NO_OF_COLUMNS FROM information_schema.columns WHERE table_name = →
  'IPL BALL';
--ANALYSIS QUESTION
--Q.1) How many players have won player of the match award at least once
SELECT COUNT(DISTINCT(player_of_match)) AS PLAYER_OF_MATCH_COUNT FROM IPL_MATCHES;
--Q.2) Get details of top 5 matches which were won by maximum number of runs/
 result_margin.
--FIRST UPDATE NULL VALUES OF THIS COLUMN
UPDATE IPL_MATCHES
SET result margin='0'
WHERE result_margin IS NULL;
--CHECKING TOP 5 MATCHES
SELECT TOP 5 * FROM IPL_MATCHES
ORDER BY result_margin DESC
--Q.3) Order the rows by city in which the match was played
SELECT*FROM IPL_MATCHES
ORDER BY city;
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--Q.4) Find venue of 10 most recently played matches
SELECT TOP 10 venue FROM IPL MATCHES
ORDER BY date DESC;
--Q.5) Return a column with comment based on total_runs
SELECT *,
CASE
WHEN total_runs=0 THEN 'DOT'
WHEN total_runs=1 THEN 'SINGLE'
WHEN total runs=2 THEN 'DOUBLE'
WHEN total_runs=2 THEN 'THREE'
WHEN total_runs=4 THEN 'FOUR'
WHEN total_runs=5 THEN 'FIVE'
WHEN total runs=6 THEN 'SIX'
END AS RUN COMMENT
FROM IPL_BALL;
--Q.6) Create table deliveries_v02 with all the columns of deliveries and an
  additional column ball result containing value boundary, dot or other depending on >
  the total_run (boundary for >= 4, dot for 0 and other for any other number)
--FIRST INSERT NEW COLUMN IN IPL_BALL DATASET
ALTER TABLE IPL BALL
ADD ball_result_label VARCHAR(50);
-- UPDATE NEW COLUMN WITH VALUES
UPDATE IPL_BALL
SET ball result label=
       CASE total_runs
            WHEN Ø THEN 'DOT'
            WHEN 1 THEN 'SINGLE'
            WHEN 2 THEN 'DOUBLE'
            WHEN 3 THEN 'THREE'
            WHEN 4 THEN 'FOUR'
            WHEN 5 THEN 'FIVE'
            WHEN 6 THEN 'SIX'
       END
WHERE total_runs IN (0,1,2,3,4,5,6);
--MAKE NEW TABLE deliveries_v02 FROM OLD TABLE IPL_BALL
SELECT * INTO deliveries_v02
FROM IPL BALL;
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--CHECKING TABLE IS CREATED OR NOT
SELECT *FROM deliveries v02;
-----
--Q.7) Write a query to fetch the total number of boundaries and dot balls.
SELECT ball_result_label,COUNT(*) AS COUNT_
FROM deliveries v02
WHERE ball_result_label='SIX' OR ball_result_label='DOT' OR ball_result_label='FOUR'
GROUP BY ball result label
______
--Q.8) What is the highest runs by which any team won a match.
SELECT MAX(result margin) AS WINNER RUN MARGIN FROM IPL MATCHES;
--Q.9) On an average, teams won by how many runs in ipl.
SELECT ROUND(AVG(result_margin),2) AS AVERAGE_RUN_MARGIN FROM IPL_MATCHES;
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--Q.10) How many extra runs were conceded in ipl by SK Warne
SELECT SUM(extra_runs) AS RUNS_CONCEDED FROM IPL_BALL
WHERE bowler='SK Warne';
--Q.11) How many boundaries (4s) and (6s) have been hit in ipl
SELECT total_runs, COUNT(total_runs) AS COUNT_
FROM IPL BALL
WHERE total_runs=4 OR total_runs=6
GROUP BY total runs;
--Q.12) How many balls did SK Warne bowl to batsman SR Tendulkar.
SELECT COUNT(*) AS COUNT_OF_BALL
FROM IPL BALL
WHERE batsman='SR Tendulkar' AND bowler='SK Warne';
--Q.11) How many matches were played in the March and June
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SELECT COUNT(*) AS COUNT_OF_MATCHES FROM IPL_MATCHES
WHERE MONTH(date)=03 OR MONTH(date)=06;
-----
--Q.12) Add column season in IPL MATCHES dataset and update this column taking year of ₹
  match from date column.
--ADDING COLUMN
ALTER TABLE IPL_MATCHES
ADD season int;
-- UPDATE COLUMN WITH YEAR
UPDATE IPL_MATCHES
SET season =YEAR(date)
  --Q.13) Name the players who won player of match only once in this period.
SELECT player_of_match, COUNT(player_of_match) FROM IPL_MATCHES
GROUP BY player of match
HAVING COUNT(player_of_match)=1
--Q.14) Fetch data of all the matches played on 2nd May 2013
SELECT *FROM IPL_MATCHES
WHERE date= '2013-05-2';
--Q.15) Fetch data of all the matches where the margin of victory is more than 100 >
SELECT *FROM IPL MATCHES
WHERE result_margin>100;
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--Q.16) 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 IPL_MATCHES
WHERE result='tie'
ORDER BY date DESC;
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--0.17) Get the count of cities that have hosted an IPL match
SELECT COUNT(DISTINCT city) AS COUNT_OF_CITIES
FROM IPL_MATCHES;
-- Q.18) Write a guery to fetch the total number of dismissals by dismissal kinds
SELECT dismissal_kind, COUNT(dismissal_kind)AS DISMISSAL_COUNT
FROM deliveries v02
WHERE dismissal kind != 'NA'
GROUP BY dismissal kind
ORDER BY DISMISSAL_COUNT DESC;
-- 0.19) Write a query to get the top 5 bowlers who conceded maximum extra runs
SELECT TOP 5 bowler, COUNT(extra_runs) AS COUNT_OF_EXTRA_RUNS
FROM IPL BALL
GROUP BY bowler
ORDER BY COUNT_OF_EXTRA_RUNS DESC;
______
--Q.20) Write a query to fetch the total runs scored for each venue and order it in →
 the descending order of total runs scored.
SELECT M.venue ,COUNT(B.total_runs) AS TOTAL_RUNS
FROM IPL_MATCHES AS M
JOIN
IPL BALL AS B
ON M.id=B.id
GROUP BY M. venue
ORDER BY TOTAL_RUNS DESC;
--Q.21) Write a query to fetch the year-wise total runs scored at Eden Gardens and →
 order it in the descending order of total runs scored
SELECT M.venue ,YEAR(M.date) AS YEAR_OF_MATCH,COUNT(B.total_runs) AS TOTAL_RUNS
FROM IPL_MATCHES AS M
JOIN
IPL BALL AS B
ON M.id=B.id
WHERE M. venue='Eden Gardens'
GROUP BY M.venue, YEAR(M.date)
ORDER BY TOTAL RUNS DESC;
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