

```
USE BUDT703_Project_0507_15;
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```
--What are the 10 biggest victory Margin for UMD and against who?
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```
WITH VictoryMargins AS (  
    SELECT t.temTeamName AS 'Team Name', MAX(r.rstUMDScore - r.rstOppScore) AS  
'Victory Margin'  
    FROM Result r, Outcome o, Team t, Schedule s  
    WHERE r.rstResultId = o.rstResultId  
    AND o.oppTeamID = t.temTeamId  
    AND r.rstUMDScore > r.rstOppScore  
    GROUP BY t.temTeamName)  
SELECT TOP(10) v.*  
FROM VictoryMargins v  
ORDER BY v.[Victory Margin] DESC;
```

```
-- Which 10 teams did UMD lose against the most?
```

```
WITH Losses AS (  
    SELECT t.temTeamName AS 'Opponent', COUNT(r.rstResultId) AS '# of times Lost'  
    FROM Result r, Outcome o, Team t  
    WHERE r.rstResultId = o.rstResultId  
    AND o.oppTeamID = t.temTeamId  
    AND r.rstUMDScore < r.rstOppScore  
    GROUP BY t.temTeamName)  
SELECT TOP(10) l.*  
FROM Losses l  
ORDER BY l.[# of times Lost] DESC;
```

```
--Top players to choose for 2024 year
```

```
WITH AverageStats AS  
(SELECT AVG(plyAvg) 'plyAverageAvg'  
FROM PlayerStats  
where plyAvg < 1 And  
    plyAvg >0),
```

```
AboveAvgPlayer AS (  
SELECT plyPlayerId, plyAvg FROM PlayerStats  
WHERE plyAvg > (SELECT plyAverageAvg FROM AverageStats) AND  
    plyAvg < 1  
)
```

```
SELECT CONCAT(p.plrFirstName , ' ', p.plrLastName) AS 'Player Full Name',  
    a.plyAvg AS 'Player Average'  
FROM Player p, AboveAvgPlayer a  
WHERE p.plrPlayerId = a.plyPlayerId AND  
    p.plrStartYear >= 2021  
ORDER BY a.plyAvg DESC;
```

```
--Top 10 Win ratio for tournaments where there played atleast 5 matches;
```

```
WITH TournamentOutcome AS  
(SELECT  
    CASE WHEN rstUMDScore > rstOppScore THEN 'Win'  
    WHEN rstUMDScore < rstOppScore THEN 'Loss'  
    when (rstUMDScore=0 and rstOppScore = 0) Then 'Cancelled'  
    ELSE 'Draw' END AS 'MatchOutcome',  
    s.scdTournament  
FROM Result r,  
    Outcome o,  
    Schedule s  
WHERE r.rstResultId = o.rstResultId And
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        o.scdMatchId = s.scdMatchId And
        s.scdTournament is not null),

TotalMatches AS (
SELECT scdTournament,
       Cast(count(CASE WHEN MatchOutcome = 'Win' or
                        MatchOutcome = 'Loss' or
                        MatchOutcome = 'Draw' THEN MatchOutcome END ) AS FLOAT)
'MatchesCountByTournament',
       Cast(Count(CASE
                WHEN MatchOutcome = 'Win'
                THEN MatchOutcome END) AS FLOAT) AS 'WinMatchCount'
FROM TournamentOutcome
WHERE MatchOutcome != 'Cancelled'
GROUP BY scdTournament
HAVING COUNT(MatchOutcome) > 3
),

TournamentWinRatio AS (
SELECT scdTournament,
       ROUND((WinMatchCount/MatchesCountByTournament), 2) as 'WinRatio'
FROM TotalMatches
WHERE MatchesCountByTournament >=5
)

SELECT TOP 10 * FROM TournamentWinRatio
ORDER BY WinRatio DESC;

--Which stadium was most visited in terms of total audience all years combined?
WITH BaseTable AS (
SELECT t.temTeamName,
       r.rstAttendance,
       s.scdCityLocation
FROM Team t,
     Result r,
     schedule s,
     Outcome o
WHERE t.temTeamId = o.opppTeamID AND
      o.rstResultId = r.rstResultId AND
      o.scdMatchId = s.scdMatchId
),

TotalAudience AS (
SELECT temTeamName,
       sum(rstAttendance) AS 'TotalAttendance'
FROM BaseTable
GROUP BY temTeamName)

SELECT TOP 10 * FROM TotalAudience
ORDER BY TotalAttendance DESC;

--How many times has UMD won so far in each weather condition?
WITH WeatherOutcome AS
(SELECT rstWeather,
       CASE WHEN rstUMDScore > rstOppScore THEN 'Win' END AS 'MatchOutcome'
FROM Result r,
     Outcome o,
     Schedule s
WHERE r.rstResultId = o.rstResultId And

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        o.scdMatchId = s.scdMatchId  
        and rstWeather is not NULL  
    )
```

```
SELECT rstWeather,  
       count(CASE WHEN MatchOutcome = 'Win' THEN MatchOutcome END ) AS 'Total  
Wins'  
FROM WeatherOutcome  
WHERE MatchOutcome != 'cancelled'  
GROUP BY rstWeather, MatchOutcome  
ORDER BY rstWeather ASC, MatchOutcome DESC  
;
```