

Tasks: Writing join queries, equivalent, and/or recursive queries.

Aim: To perform the advanced query processing and test in heuristics using designing of optional correlated and nested sub queries such finding summary statistics.

5.1 To retrieve all recursive boards and their teams

5.2 To list all matches along with teams and their captains.

5.3 To count the number of matches played by team

5.4 To find all players who are part of team named "TIGER ROSE".

5.5 To retrieve all team details, including the count of winning matches for each team.

5.6 To retrieve the total number of 'tie' in matches.

5.7 To retrieve the team details who won most

5.8 To retrieve players and match details of players who are above 35 years old.

5.9 To retrieve the details of team who has not played any matches.

5.10 To retrieve the teamid, boardid, team name and playername for particular playerid given

3.1 To retrieve all cricket boards and their teams
SQL select s.b.cb_name AS cricket_board t.name
as team from cricket_board t join team l on
cb_boardID = t.boardID;

cricket board

chennai cricket board

chennai cricket board

trivallur cricket board

Tiruvallur cricket board

Trichy cricket board

Viluppuram cricket board

Madurai cricket board

Tuticorin cricket board

Gobain cricket board

Tripur cricket board

Team

ABS Express

AVG Express

Angry bird

Tiger rock

Rock

Rainbow

Panther

Thunder

Eagle

Kings

3.2 List all matches along with the teams and their captains.

SQL select m.match_date, m.tome, m.team1_name
as team1, name1, captain1 as team1_captain,
team2_name as team2_name, to_captains as team2_captain
from match m join team t1 on m.team1ID = t1.teamID
join team t2 on m.playedID = t2.teamID.

| match date | Time | Match ID | team 1 - name | team 1 - captain | team 2 - name | team 2 - captain |
|-------------|------|----------|---------------|------------------|---------------|------------------|
| 22-jun-2022 | 1.3 | M01 | A-BaserDress | Sampath Kumar | Angry bird | Samil John |
| 22-jun-2022 | 8.3 | M02 | AG express | Y-JOHN | Tiger rock | Bengal |
| 24-jun-2022 | 8.3 | M03 | Rock | V-Muthu | Angry | Samil John |
| 25-jun-2022 | 8.3 | M04 | Rock. | L-Muthu | Tiger rock | Bengal |

4-Apr-2023 7.3 M05 Eggle Sathari Ag express V-John

5.3. count the number of matches played each team.

SQL>select Name as team, count(mt.teamID) as matches
played from Team t left join matches mt on t.team
ID = mt.teamID group by t.Name;

| Team | Matches Played |
|-------------|----------------|
| ABC EXPRESS | 1 |
| Angry bird | 0 |
| ARG EXPRESS | 1 |
| Eagle | 1 |
| Kings | 0 |
| Panther | 0 |
| Rainbow | 0 |
| Rock | 2 |
| Thunder | 0 |
| Tiger rock | 0 |

5.4. To find all Players who are Part of Team named Tiger rock

SQL>select P.PlayerID, P.Name, P.TeamID, T.Captain
from Player P join Team t ON P.TeamID
= teamID where t.name = 'Tiger rock';

| PlayerID | FName | TeamID | coach | captain |
|----------|-----------|--------|----------|------------|
| 102 | Akash | TCB02 | S.Kannan | Ben George |
| 12 | Premkumar | TCB02 | S.Kannan | Ben George |

5.5. To retrieve all team details, including the count of winning matches for each team

SQL > select t.teamID, t.name, as Teamname, t.coach, t.captain, count as winning from team
let t join match m on t.teamID=msubs.
output.

| TeamID | Team Name | coach | captain | winnig match |
|--------|-------------|----------------|---------------|--------------|
| CLB01 | ABSEXPRESS | G.D.Ramesh | sampath kumar | 1 |
| CLB02 | AVG EXPRESS | T.Karthik | y.JOHN | 0 |
| MCLB01 | Panther | saravanan | R.Sunil Kumar | 0 |
| SLB01 | Eagle | SOMU | srithari | 0 |
| TCB01 | Angry bard | Tombala | Cini John | 2 |
| TCB02 | Tiger rock | S.Kannan | Ben George | 0 |
| TILB01 | pings | DAVAND | mathan | |
| VCB01 | Rainbow | S-Rajesh Kumar | main kumar | |

5.6 To retrieve the total number of tie matches in team wise manner

SQL>Select t.Name as Teamname, count(*) as Total Tie matches from Team t join MatchesResult m on t.TeamID = m.TeamID join MatchesResult m on m.MatchID = m.MatchID where m.Result = 'Tie' group by name;

Team name ... Total tie matches

Rock

5.7 To retrieve the team details who won the matches.

SQL>Select * from Team where TeamID in (Select mr.TeamID from MatchResult mr left join Team t on mr.TeamID = t.TeamID where mr.Result = 'Winning')

| TeamID | Board | Name | coach | Captain |
|--------|-------|--------------|---------------|---------------|
| LCB01 | B1D01 | A BS Express | G. D. Agniesz | Sampath Kumar |
| TCB01 | B2D02 | Angry bird | Tom Babu | Cini John |
| TRCB01 | B2D04 | Rock | K. Paul | K. Muthu. |

5.8 To retrieve players and match details of players who are above 35 years old

SQL>Select P.PlayerID, P.Name, A.PlayerName, P.PlayerID, m.MatchID, m.MatchDate, m.Time, m.Result from PlayerP, match m P.PlayerID in

| PlayerID | Playername | Age | MatchID | Matchdate | Time | Result |
|----------|------------|-----|---------|-----------|------|-------------|
| 1 | Raj | 27 | M01 | 22-jun-22 | 1-3 | TCB01-win |
| 1 | Raj | 27 | M02 | 22-jun-22 | 6-3 | TCB01-win |
| 1 | Raj | 27 | M03 | 22-jun-22 | 8-3 | TCB01-win |
| 1 | Raj | 27 | M04 | 25-jun-22 | 8-3 | TRICB01-win |
| 1 | Raj | 27 | M05 | 04-APR-23 | 7-3 | Tie |

Q9. To retrieve the details of team who have not played any matches.

~~Q9. To select * from team where teamID not in
 (select teamid from match union select playerID
 from match);~~

| TeamID | BoardID | Name | coach | captain |
|--------|---------|---------|-----------|-----------|
| VCB01 | BID03 | Rainbow | S. Rajesh | Manimaran |
| MCB01 | BID05 | Panther | Kumar | Saravanan |
| TVCB01 | BID06 | Thunder | D Alex | Barathi |
| TICB01 | BID08 | Kings | D Anand | Mathai |

Q10. To retrieve the teamid, boardid, team name and playername for a particular player given.

SQL > select t.teamid, t.boardid, t.name, p.fname
from team t join player p on t.teamid = p.teamid
where p.playerid = 66!

| TeamID | BoardID | Name | FName |
|--------|---------|---------|--------|
| VCB01 | B1D03 | Rainbow | Ganesh |

thus all equivalent query to go
in a database will result in same
output regardless of the browser used
will result in same output without any change of
style because it is not want to indicate
board

| Result | | INFORMATION (5) | 5 |
|--------|--|----------------------|----|
| | | SUMMARY ANALYSIS (5) | 5 |
| | | VIVA VOICE (5) | 5 |
| | | RECORD (5) | 3 |
| | | TOTAL (20) | 5 |
| | | SIGN WITH DATE | 18 |
| | | | 2 |

thus the query using join queries, equivalent and
or recursive queries has been done successfully.