

Tasks: writing join queries, equivalent, and/or recursive queries!

Aim: To Perform the advanced query Processing and test in heuristics using designing of optimal correlated and nested sub queries such finding summary statistics.

- S.1 To retrieve all recursive boards and their teams
- S.2 To list all matches along with teams and their captains.
- S.3 To count the number of matches played by team
- S.4 To find all Players who are part of team named "TIGER ROY".
- S.5 To retrieve all team details, including the count of winning matches for each team.
- S.6 To retrieve the total number of tie or matches.
- S.7 To retrieve the team details who won match
- S.8 To retrieve Players and match details of Players who are above 35 years old.
- S.9 To retrieve the details of team who have not played any matches.
- S.10 To retrieve the teamid, boardid, team name and player name for particular Playerid given

3.1 To retrieve all cricket boards and their teams
 so 1 > select s.b. cb.name As cricket board t.name
 as team from cricket board t join team t on
 cb.boardID = t.boardID;

cricket board	Team
chennai cricket board	ABs Express
chennai cricket board	AVG Express
Tiruvallur cricket board	Angry bird
Tiruvallur cricket board	Tiger rock
Trichy cricket board	Rock
Viluppuram cricket board	Rainbow
Madurai cricket board	Panther
Tuticorin cricket board	Thunder
Salem cricket board	Eagle
Trippur cricket board	Kings

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

so 1 > select m.match Date, m.time, m.team 1 name
 as team 1, name 1, captains as team 1, captain,
 t 2 name as team 2 name, t2 captains as team 2 captain
 from match m join team t1 on m.teamID = t1.team
 ID join team t2 on m.playedID = t2.teamID.

Match Date	Time	Match ID	team L name	team 1 - captain	team 2 - name	team 2 - captain
22-jun-2022	1-3	MO1	ABsexpress	sampathkumar	Angry band	cinil john
22-jun-2022	8-3	MO2	Ang express	y. john	Tiger rock	Bengge
24-jun-2022	8-3	MO3	Rock	K. Muthu	Angly	cinil john
25-jun-2022	8-3	MO4	Rock.	K. Muthu	Tiger rock	Bengge
14-APR-2023	7-3	M05	Eagle	Srinari	Ag express	y. 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
ABE 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
 = t.teamID where t-name = 'Tiger rock';

PlayerID	FName	TeamID	coach	captain
102	AKASH	TCB02	S. Kannan	Ben George
12	Ramkumar	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=Subs.

output.

TeamID	Team Name	coach	captain	winning match
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CLB01	ABSEXPRESS	G.D. Ramesh	Sampath Kumar	1
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CLB02	AVG Express	T. Karthik	V. John	0
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MLB01	Panther	Saravanan	R. Sunil Kumar	0
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SLB01	Eagle	Somu	Srihari	0
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TCB01	Angry bard	Tombabu	Cipri John	2
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TCB02	Tiger rock	S. Kannan	Ben George	0
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TILB01	Kings	DAVAND	Mathan	
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VLB01	Rainbow	S. Rakesh Kumar	main maran	
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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 matches result t on t.teamID = m.teamID join matches result m on m.matchID = m.matchID where m.result = 'tie' group by name;

Team name	Total tie matches
Rock	1

5.7 To retrieve the team details who won the matches.

SQL> select t from team where teamID in (select m.teamID from match result m let t join team on m.teamID = t.teamID where m.result = 'win')

TeamID	Board	Name	Coach	Captain
LCB01	BID01	ABS EXPRESS	G. D. Ramesh	Sampath Kumar
TCB01	BID02	Angry bird	Tom Kibu	Cinil John
TRICB01	BID04	Rock	K. Paul	K. Muthu.

5.8 To retrieve Players and match details of Players who are above 25 years old

SQL> select P.PlayerID, P.Name, As Player name, P.m matchID, m.match Date, m.time, m.result from player P, 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	8-3	TCB01-win
1	Raj	27	M03	22-jun-22	8-3	TCB01-win
1	Raj	27	M04	25-jun-22	8-3	TRILB01-win
1	Raj	27	M05	01-APR-23	7-3	Tie

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

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

TeamID	BoardID	Name	coach	captain
VLB01	BID03	Rainbow	S. Rajesh Kumar	Manimaran
MLB01	BID05	Panther	Saravanan	P. Sumil Kumar
TULB01	BID06	Thunder	DAlex	Barathi
TILB01	BID08	Kings	DAnand	mathan

5.10. To retrieve the teamid, board id, team name and playername for a particular player given.

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

TeamID	BoardID	Name	FName
VCB01	BID03	Rainbow	ganesha

TECH - CSE	
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
TECH VOICE (5)	5
RECORD (5)	2
TOTAL (20)	17
SIGN WITH DATE	2

Result

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