

Task 5 :- Writing join Queries, Equivalents and (a recursive approach)

Aim :- TO perform the advanced query processing and test its correctness using designing of optimal correlated and nested sub queries such as finding summary statistics.

- S.1 :- To retrieve all cricket boards and their teams.
- S.2 :- To list all matches along with the team and their captains.
- S.3 :- To Count the number of matches played by each team.
- S.4 :- To find the players who are part of the team named "Tiger stock".
- 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' matches in a team-wise manner.
- S.7 :- To retrieve the team details who won the trophy.
- S.8 :- To retrieve of details of team who have not played any matches.
- S.9 :- To retrieve players and match details of players who are above 25 years old.
- S.10 :- To retrieve the team id , board , team name and player name for a particular player ID given.

*S.11 :- To retrieve all cricket Boards and their teams

SOL :- Select cb.name AS Cricket Board , t.name AS Team from Cricket Board JOIN team t ON cb.BoardID = t .Board ID;

using join query

cb.name AS



Cricket Board	Team
Chennai Cricket Board	ABIS Express
Chennai Cricket Board	AUG Express
Tiruchirappalli Cricket Board	Angry BARD
Thiruvallur Cricket Board	Tiger Rock
Trichy Cricket Board	Rockstar

Cricket Board	Team
Vellore Cricket Board	Raiders
Madurai Cricket Board	Panties
Tuticorin Cricket Board	Thunder
Salem Cricket Board	Eagle
Tiruppur Cricket Board	Kings

* S2 :-

- = Disk all matches along with the team & their captain,
- = SQL > select match_id, match_no, match_id, team_1_name, b1 + captain As being_captain,
team_2_name As team_1_name, b1 + captain As being_captain,
team_2_name As team_10 = b1 teamID for team b on 102
w. player ID = b2 .. team ID;

Match Date	Time	MatchID	Team_1_name	Team_2_name	Team_1_captain	Team_2_captain
22-6-22	1-3	M01	ABIS Express	Sunpath	Angry BARD	CIVIL JOHN
22-6-22	9-3	M02	AUG Express	Y-JOHN	Tiger Rock	BEN George
24-6-22	8-3	M03	Rockstar	Kruthi	Angry BARD	CIVIL JOHN
25-6-22	8-3	M04	Rock	Kruthi	Tiger Rock	BEN George
26-6-22	7-3	M05	Eagle	Sri Lank	AUG Express	Y-JOHN

- * S2 :- Count the number of matches played each team.
- = SQL > select team_name, No_of_matches
- = SQL > select t1.name As Team, COUNT (tbl.Ten_ID) As matches
from match t1 left join match t2 on t1.team_id = t2.team_id
group by t1.team_id
- = SQL > select team_name, count(*) as matches
from match
group by team_name
- = SQL > select team_name, count(*) as matches
from match
group by team_name

Team	matches Played
AB5 Express	1
Angry BARD	0
Avg Express	1
Eagle	1
Kings	0

Team	matches Played
Panther	0
RAINBOW	0
Rock	2
Thunder	0
Tiger Rock	0

* S.4: - To find all the players who are part of the team named "Tiger Rock", do the following steps.

SQL> select p.player ID, p.fname, p.lname, p.team ID, t.coach, t.captain from player p join team t on p.team ID = t.team where t.name = "Tiger Rock";

Player ID	F name	Team ID	Coach	Captain
62	Akash	TCB02	S.KANNAN	BEN GEORGE
12	Premkumar	TCB02	S.KANNAN	BEN GEORGE

* S.5: - To retrieve all team details, including the count of winning matches for each team.

SQL> result t. Team ID, t.name AS Team Name, t.coach, t.captain, count (m.match ID) AS winning match count
 From t left join match m on t. team ID = m.subteam
 Result Group By t. Team ID, t.name, t.coach, t.captain

Team ID	Team Name	Coach	Captain	winning match count
CCB01	AB5 Express	G.V.D. Varesh	Satyarth Kumar	1
CCB02	Avg Express	T. Kartik	G.JOHN	0
TCB01	Panther	SARAVANA	R.Srinivas Kumar	0
TCB01	Eagle	Somu	Sri Hari	0
TCB01	Angry BARD	TOMBARO	Civil JOHN	2
TCB02	Tiger Rock	S.KANNAN	BEN GEORGE	0

T1.Bol	Kings	Diamond	MATHAN	0
T2.Bol	Rock	K.P.Nat	K.Muthu	0
T3.Bol	Thunder	D.Alex	Bavathi	0
VC.Bol	Rainbow	S.Vaishnavi	mani.maran	0

* S.6 :- To retieve the total number of 'tie' matches played
= wise manner

SOL > SELECT t.Name AS Team Name, COUNT (*) AS Total
Tie matches FROM Team;

Join match - result mb ON t.Team ID = mb .Team ID join
Match - result m ON mb .match ID = mb .match ID where
m .result = 'tie' Group By t.Name;

<u>Team Name</u>	<u>Total Tie matches</u>
Rock	1

* S.7 :- To retieve, the team details, who won the matches
SOL > select * from team where TeamID in (Select m.Team
ID from match - result m left join Team t on m.TeamID
= t.TeamID where m.result = 'win');

<u>TeamID</u>	<u>BoardID</u>	<u>Name</u>	<u>Coach</u>	<u>Captain</u>
CC.Bol	B1001	ADS Express	G.O. Venesh	S.Anupath Kumar
Tc.Bol	B1002	Angry BARD	Tom BABU	
TRIC.Bol	B1003	Rock	K. Apul	K. Muthu

* S.8 :- To retieve player and match details of players
who are above 25 years old



SQL > Select p.playerID, p.FName AS playerName, p.Age,
 u.matchDate, u.matchTime, u.result FROM players p
 WHERE p.playerID IN (SELECT ID FROM player WHERE age > 25);
 To get a grouped table add GROUP BY & ORDER BY

Player ID	Player Name	Age	Match Date	Match Result	Team ID	Level
1	Raj	27	MOI	22-Jun-2022	1-3	TCB01-win
1	Raj	27	MOI	22-Jun-2022	8-3	CCB01-win
1	Raj	27	MOI	24-Jun-2022	5-3	TCB01-win
1	Raj	27	MOI	25-Jun-2022	8-3	TCB01-win

* S.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 PlayedFromMatch);

TeamID	BoardID	Name	Captain	Members
VCB01	B1003	Rainbow	S. VAIYESH KUMAR	MARSHAN
MCB01	B1005	Panthers	SARAVANAN	R. SWILKUMAR
TCB01	B1006	Thunder	D. ALEX	BARATHI
TCB01	B1008	Kings	D. ANAND	MEETAM

* S.10 SQL > Select T.TeamID, T.Name, CS, P.
 EX NO.,
 P. from Team T join Player P
 ON T.TeamID = P.TeamID WHERE P.Played = 6;

TeamID WHERE P.Played = 6

TeamID	BoardID	Name	CS	P.
VCB01	B1003	Rainbow	Grand	8/

Overall Total = 100

