

12-8-25

Task 4Using Functions in Queries and writing sub queries:

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

1. To retrieve all details, including the count of winning matches for each team.
2. To retrieve the total number of 'Tie' matches in team-wise manner
3. To retrieve the team details who won the matches.
4. To retrieve players and match details of players who are above 25 years old.
5. To retrieve the details of team who have not played any matches
6. To retrieve the teamid, board id, team name, and player name for particular player id given.
- 4.1 To retrieve all team details, including count of winning matches for each team.

output:

Team ID	Team Name	Coach	Captain	Winning match count
TRICB01	Rock	K. Paul	K. Muthu	0
TCB02	Avg Express	T. Karthik	V. John	0
SCB01	Eagle	Somu	SRIHARI	0
MCB01	Panther	Sarvanah	R. Sunil Kumar	0
TUB01	Thunder	D. Alex	BARATH I	0
TICB01	Angdy BARD	TOM BARD	CIVIL JOHN	2
VCB01	Rainbow	S. Rakesh Kumar	Manimaran	0
TCB02	Tiger Rock	S. KANNAN	Ben George	0
CCB01	ABS Express	G. D. Ramesh	Sampath Kumar	1
TICB01	KINGS	P. ANAND	MATHAN	0



4.2 TO retrieve the total number of tie matches in a team-wise manner.

SQL> select t.TeamID, AS Team Name, count (n match ID)  
AS Tiecount FROM Team t Join  
match mon (t.TeamID = m.TeamID1 OR t.TeamID = m.TeamID2  
OR t.TeamID = m.TeamID2) AND INSTR (m.Result, 'Tie') > 0  
GROUP BY t.TeamID, t.Name;

TEAMID	TEAM NAME	TIE COUNT
TRICB01	ROCK	1
TCB02	TIGER ROCK	1

4.3 TO retrieve the team details who won the matches

SQL> select \* from team where team ID in (select t.teamID  
from team t left join match m on (t.TeamID = m.TeamID1  
OR t.TeamID = m.TeamID2) AND INSTR (m.Result, 'WIN') > 0)

TEAMID	BOARDID	NAME	COACH	CAPTAIN
CCB01	BID01	ABS Express	G.P RAMESH	SAMPATH kumar
CCB02	BID01	Avq Express	T. Karthik	Y. John
TCB01	BID02	Angry BAP	TOM BABU	CINIL JOHN
TCB02	BID02	Tiger Rock	S. KANNAN	BEN GEORGE
TRICB01	BID04	ROCK	K. PAUL	K. MUTHU
VCB01	BID03	Rainbow	S. Rajeshkumar	Manimaran
MCB01	BID05	Panther	saravanan	R. sunil kumar
TUCB01	BID06	Thunder	D. ALEX	BARATHI
SCB01	BID07	Eagle	SOOMU	SRIHARI
TLCB01	BID08	Kings	D. ANAND	MATHAN

10 rows selected



4.4 TO retrieve players and match details of players who are above 25 years old.

SQL> select P.player ID, P.FName AS player name, P.Age, m.Match ID, m.match\_date, m.Time 1, m.Result FROM player P, match m where P.player ID in (select player ID = (mteam id 2).

PLAYER	PLAYER NAME	AGE	MATCH ID	MATCH DATE	TIME	RESULT
1.	RAT	27	MOI	22-JUN-22	1.3	TCBOI-M

4.5 TO retrieve the details of team who have not played any matches.

SQL> select t.team ID, t.Name AS team name, t.coach, t.Captain FROM team t where t.team ID not in (select team ID from match union select team ID from match);

Team ID	Team Name	Coach	Captain
VCBOI	Rainbow	S. Rajeshkumar	Mani Maran
MCBOI	Panther	Saravanan	R. S. N. Kumar
TVCBOI	Thunder	D. Alex	BARATHI
SCBOI	EAGLE	SOMU	SRI HARI
TICBOI	KINGS	D. ANAND	MARHAN

4.6 TO retrieve the team id, board id, team name, and player name for particular player id given.

SQL> select t.team id, t.board id, t.name, p.fname from team t join player p on t.team id = p.team id where p.player id = '66';

Team ID	BOARD ID	Name	FName
VCBOI	B1D03	RAINBOW	Craneish

WED TECH	
EX NO	
PERFORMANCE (5)	
RESULT AND ANALYSIS (5)	
VIVA VOCA	
RECORD	
TOTAL (20)	
WITH DATE	

Result: Thus the query using Join and writing subquery has been done successfully.