

## 18/25 TASK 4:- using functions in queries and writing sub queries

### AIM:-

To perform the advanced query processing and test its characteristics using designing of optimal correlated and nested sub queries such as finding summary statistics.

1. To retrieve all team details, including the count of winning matches for each team.
2. To retrieve the total number of 'tie' matches in a team-wise manner.
3. To retrieve the team details who won the matches.
4. To retrieve players and match details of players who above 25 years old.
5. To retrieve the details of team who have not played any matches.
6. To retrieve the teamid, boardid, teamname, and playername for a particular playerid given.
7. 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(m.matchID) AS winning Match Count FROM team t LEFT JOIN match  
 m ON t.teamID = substr(m.result, 1, 5) GROUP BY t.teamID, t.name, t.coach,  
 t.captain;

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

SQL> SELECT t.name AS Team Name, COUNT(\*) AS Total matches FROM  
 team t JOIN Match\_result mt ON t.teamID = mt.teamID JOIN  
 match\_result m ON mt.matchID = m.matchID WHERE m.Result =  
'tie' GROUP BY t.name;

Team name

Rank

Total tie matches

OutPut:

Team ID	Team Name	Coach	Captain	Winning matches
CCB01	ABS AER EXPRESS	G.D. RAMESH	SAMPATH KUMAR	0
CCB02	AVG EXPRESS	T. KARTHIK	V. JOHN	0
MCB01	PANTHER	SARAVANAN	R. SUNIL KUMAR	0
SCB01	EAGLE	SOMU	SRI HARI	0
TCB01	ANGRY BIRD	TON BABU	CINTL JOHN	2
TCB02	TIGIER ROKE	S. KANNAN	BEN GEORGE	0
TICB01	KINGS	D. ANAND	MATHAN	0
TRICB01	ROCK	K. PAUL	K. MUTHU	0
TUCB01	THUNDER	D. ALEX	BARATHI	0
VCB01	RAIN BOW	S. RAJESH KUMAR	MANIMARAKI	0



4.3 To retrieve the team details who won the matches.

SQL > Select \* from team where ID in (select mr.teamID from match\_result  
inner join team t on mr.teamID = teamID where mr.result = 'win');

Team ID	Board ID	Name	coach	Captain
CCB01	B1D01	ABS EXPRESS	G.D.RAMESH	SAMPATH KUMAR
TCB01	B1D02	ANGRY BIRD	TOM BABU	CINIL JOHN
TRICB01	B1D03	ROCK	K.PAUL	K.MUTHU

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

SQL > SELECT P.PlayerID, P.FName, P.Age, M.MatchID, M.match\_date,  
M.Time, M.Result FROM Player P, Match M WHERE P.PlayerID IN  
(SELECT PlayerID FROM Player WHERE age > 25);

PlayerID	Player Name	Age	matchID	match_date	Time	Result
1	RAJ	27	M01	22-JUN-2022	1-3	TCB01-WIN
1	RAJ	27	M02	22-JUN-2022	8-3	CCB01-WIN
1	RAJ	27	M03	24-JUN-2022	8-3	TCB01-WIN
1	RAJ	27	M04	25-JUN-2022	8-3	TRICB01-WIN
1	RAJ	27	M05	04-APR-2023	7-3	Tie

4.5 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);

Team ID	Board ID	Name	Coach	Captain
VCB01	BID03	MINBOW	S RAJESH KUMAR	MANIMARN
MCB01	BID05	PANTHER	SARVANAN	R SUNIL KUMAR
TUCB01	BID06	THUNDER	D ALEX	BARATHI
TICB01	BID08	KINGS	D ANAND	MATHAN

Stuck between 02:00 AM - 02:00 PM, 09/09/2019, 02:00 AM - 02:00 PM, 09/09/2019  
 At 02:00 AM - 02:00 PM, 09/09/2019 Most likely due to  
 Excessive screen usage most of the time.

Time	Event	Duration	Start	End	Duration	Event
10:00-10:05	Call	00:00-00:05 AM	10:00	FS	00:05	
10:05-10:10	Call	00:00-00:05 AM	10:05	FS	00:05	
10:10-10:15	Call	00:00-00:05 AM	10:10	FS	00:05	
10:15-10:20	Call	00:00-00:05 AM	10:15	FS	00:05	

Screen lock failed to quit due most likely due to excessive screen usage.  
 Most likely because you didn't get enough sleep last night.  
 It's time to go to bed!

Q.6 To retrieve the teamid, boardid, teamname, and player name for a particular playertid given.

Team ID	Board ID	NAME	FNAME
VCB01	BID03	RAINBOW	Ganesh

SQL: SELECT t.teamid, t.boardid, t.name, p.fname FROM team t JOIN Player p ON t.teamid = p.teamid WHERE p.playertid = '66';

VEL TECH - CSE	
EX NO.	4
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	3
RECORD (5)	5
FINAL (20)	18
DATE WITH DATE	28

Result: Thus the query using joins and writing subqueries has been done successfully.