

18/12/15

Task-4

Using functions in Queries and writing Sub queries.

Aim:

To Perform the advanced Query processing and test the query using designing of optimal correct and nested Subqueries 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 are above 25 years old.
5. To retrieve the details of team who have not played any matches.
6. To retrieve the teamid, coachid, teamname, and Playername for a particular playerid gives.
- 4.1 To retrieve all team details, including the count of winning matches for each team.

```
SQL > SELECT t.TeamID, t.Name AS Team Name, 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;
```

output:

TeamID	TeamName	Coach	Captain	winning match Count
CCB01	ABS Express	G.D. RAMESH	SAMPATH KUMAN	1
CCB02	AVG Express	T. KATHIR	V. IYAN	0
MCB01	PANTHER	SARAVANAN	R. SUNIL KUMAR	0
BCB01	EAGLE	SOMU	SETHAKA	0
TICB01	ANGRY BARD	TOM BABU	CINIL JOHN	2
ACB02	TIGER ROCK	S. KANNAN	BEN GEORGE	0
TICB01	KINGS	D ANAND	MATHAN	0
TRICB01	ROCK	K. PAUL	K. MUTHU	0
QUCB01	THUNDER	D ALEX	BARATHI	0
VCB01	RAINBOW	S. RAJESHKUMAR	MANIMARAN	0

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

```
SQL > SELECT t.name AS Teamname, Count(*) AS TotalTieMatches
FROM Team t JOIN Match-Result mt ON t.TeamID = mt.TeamID
JOIN Match m ON mt.MatchID = m.MatchID WHERE
m.Result = 'tie' GROUP BY t.name;
```

Teamname	Total Tie Matches
Rock	1.

4.3 To retrieve the team details who won the matches.

```
SQL > select * from team where teamID in (select mr.teamID from
match-Result mr left join team on mr.teamID = t.teamID
where mr.result = 'win');
```


TeamID	PlayerID	Name	Coach	Captain
TCB01	BS001	ABBA BABA	G.D RAMESH	SAMPAT RAMESH
TCB01	BS003	ABBA BABA	TOM BABU	CANAL JAMES
TCB01	BS004	ABBA	B. PAUL	K. MUTHU

4.4 To retrieve players and match details of players whose age > 25 years old.

SOL > SELECT p.PlayerID, p.fname AS playerName, p.Age, m.MatchID, m.MatchDate, m.Time, m.Result FROM Player p, match m where p.PlayerID in (select PlayerID from Player where Age > 25);

PlayerID	PlayerName	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	TCB01-win
1	Raj	27	M03	24-JUN-2022	2-3	TCB01-win
1	Raj	27	M04	25-JUN-2022	8-3	TCB01-win
1	Raj	27	M05	26-APR-2023	7-3	Tie

4.5 To retrieve the details of Team who have not played any matches

SOL > select * from team where teamID not in (select teamID from match union select PlayerID from match);

TeamID	BoardID	Name	Coach	Captain
VCB01	BSID03	Rainbow	S. Rajesh Kumar	Mani Maran
MCB01	BSID05	PANTHER	SARAVANAN	R. Sunil Kumar
TUCB01	BSID06	THUNDER	D. Alex	BARATHI
TSB01	BSID08	Kings	D. ANAND	MATHAN

4.6: To retrieve the teamid, boardid, teamname, and playername for a particular playerid 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	Board ID	NAME	FName
VCB01	BSID03	RAINBOW	Ganesh

VEL TECH CSE	
EX NO.	4
PERFORMANCE (5)	5
RESULT AND ANALYSIS (5)	5
VIVA VOCE (5)	5
RECORD (5)	5
TOTAL (20)	25
SIGN WITH DATE	

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