

10/10/20 Using function in queries & writing
Subquery

Aim To Perform advance query processing
& test it the usefulness in design in goto
connected & nested sub queries such as
finding summary statistics.

1. To retrieve all teams details, including the
count of winning matches for each team.
2. To retrieve the no. of 'tie' matches in a
team-wise manner
3. To retrieve the team details who won the
matches
4. To retrieve players & match details of players
who are above any matches.

4.1 :- To retrieve all team details, including
the count of winning matches for each team

SAL > select t.Team ID, t.Name as team Name,
t.Coach, t.Captain, count(m.matchID) as winn^g
match count from team t left join

match m on team ID = substr(m.result
1,5) Group By t.Team ID, t.Name, t.Coach
t.Captain.

Output:-

| Team ID | Team Name | Coach | Captain | Winning match |
|---------|-------------|------------|-------------|---------------|
| CC B01 | ABS Express | P. Ramesh | SAPth kumar | 1 |
| CC B02 | AVG Express | R. Karthik | Y. Dhoni | 0 |
| MC B01 | PAN RER | SARAVANA | R. Sunil | 0 |
| SC B01 | EAGLE | SOMU | SATISH | 0 |
| TC B01 | Angry Bird | Tom B00 | Chin John | 2 |
| TC B02 | ROGER ROCK | S. Kannan | Ben George | 0 |
| TC B01 | KING'S | D. ANAND | mathan | 0 |
| TRG B01 | ROCKS | K. PAUL | K. mothy | 0 |
| tuc B01 | thunder | D. Alex | Barathi | 0 |
| UC B01 | Rainbow | S. Rajesh | maniravan | 0 |

4.2:- To retrieve the total no. of tie matches in in a team wise manner.

SAL > SELECT + Name AS Team Name, COUNT AS total tie matches FROM Team + JOIN match -- result m ON m.f. match ID JOIN WHERE m RESULT = 'Tie' GROUP BY + Name

| Team | Total tie matches |
|------|-------------------|
| Rock | 1 |

4.3: To Retrieve the team details who won the matches.

SQL > Select * From team where team ID in
 (select mv.team ID from match-result mv.
 left join team t on mv.team ID = t.team
 ID where mv.result = 'win');

| Team ID | Board ID | Name | coach | Captain |
|----------|----------|-------------|------------|----------|
| CC Boi | BSID01 | ABS Express | G.D Ramesh | SAMPth |
| TC Boi | BSID02 | Angry Bird | Rombabu | CSNP1 |
| PRRC Boi | BSID04 | Rock | K. Paul | K. muthu |

4.4:- To retrieve Players & matches details
 of players who are above 25 years old

SQL > Select P.PlayerID, P.Fname as Player
 Name, D.Age, match ID, m.match-note, m-times
 m.Result From Player P, match m where P.
 PlayerID in select Player ID from player
 where age > 25);

| PlayerID | Player Name | Age | matchID | Date-of-Birth |
|----------|-------------|-----|---------|---------------|
| 1 | Raj | 27 | m01 | 22-Jun-22 |
| 1 | Raj | 27 | m02 | 22-Jun-22 |
| 1 | Raj | 27 | m03 | 22-Jun-22 |
| 1 | Raj | 27 | m04 | 22-Jun-22 |
| 1 | Raj | 27 | m05 | 22-Jun-22 |

4.5:- To retrieve the details
who have not played any matches.

SQL > select * from team where team id not
in select team id from match union select
Player id from match);

| VEL TECH - CSE | |
|-------------------------|-----|
| EX NO. | 4 |
| PERFORMANCE (5) | 5 |
| RESULT AND ANALYSIS (5) | 5 |
| VIVA VOCE (5) | 0 |
| RECORD (5) | 1 |
| TOTAL (20) | 11 |
| SIGN WITH DATE | 15/ |

Result:-

Thus, the query using joins &
writing sub queries has been done
successfully.