

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)



School of Computing
B.Tech. – Computer Science and Engineering

VTR UGE2021- (CBCS)



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Course Name : Database Management Systems

Slot No : S1L4

DBMS TASK - 3 REPORT

Title: Using Clauses, Operator sand Functions in queries

Submitted by:

| VTUNO | REGISTER NUMBER | STUDENT NAME |
|----------|-----------------|--------------|
| VTU29773 | 24UECS0556 | G.Shasikala |

TASK3

Using Clauses, Operators and Functions in queries

Aim:

To perform the query processing on databases for different retrieval results of queries using DML, DRL operations using aggregate, date, string, indent functions, set clauses and operators.

- To retrieve the location of a particular match conducted by its MatchID
- To retrieve the Players detail whose name start with 'A'.
- Add a column Batting and Bowling in Playertable.
- To count the number of right-hand batsman in a team.
- To display the CricketBoard details for the BoardIDs 'BID01', 'BID03', and 'BID06'.
- To select the names and IDs of players who are left-hand bowlers.
- To find the UmpireID of umpires who have not umpired any match.

CricketBoard:

| BoardID | Name | Address | Contact_No |
|---------|--------------------------|------------|------------|
| BID01 | Chennai Cricket Board | Chennai | 9988776699 |
| BID02 | Tiruvallur Cricket Board | Chennai | 9977886699 |
| BID03 | Viluppuram Cricket Board | Viluppuram | 9966886699 |
| BID04 | Trichy Cricket Board | Trichy | 9955886699 |
| BID05 | Madurai Cricket Board | Madurai | 9944886699 |
| BID06 | Tuticorin Cricket Board | Tuticorin | 9933886699 |
| BID07 | Selam Cricket Board | Selam | 9922886699 |
| BID08 | Tiruppur Cricket Board | Tiruppur | 9911886699 |

Team:

| TeamID | BoardID | Name | Coach | Captain |
|--------|---------|------|-------|---------|
|--------|---------|------|-------|---------|

| | | | | |
|---------|-------|-------------|---------------|---------------|
| CCB01 | BID01 | ABS EXPRESS | G.D.RAMESH | SAMPATH KUMAR |
| CCB02 | BID01 | AVG EXPRESS | T.KARTHIK | Y.JOHN |
| TCB01 | BID02 | ANGRY BARD | 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.SUNILKUMAR |
| TUCB01 | BID06 | THUNDER | D ALEX | BARATHI |
| SCB01 | BID07 | EAGLE | SOMU | SRI HARI |
| TICB01 | BID08 | KINGS | D ANAND | MATHAN |

Player:

| P l a y e r I D | Team ID | FName | L N a m e | A g e | Dateof Birth | Playing Role | email | contact_no | Batting | Bowling |
|--------------------------------------|---------|-----------|-----------------------|-------------|--------------|--------------|----------------------|------------|------------|------------|
| 1 | CCB01 | Raj | N | 27 | 29-Jun-96 | Bowler | rajn@gmail.com | 9191910101 | null | left-hand |
| 33 | CCB01 | Balaji | D | 23 | 2-Jan-99 | Batsman | balajid@gmail.com | 9191910031 | right-hand | Null |
| 2 | CCB02 | Krishna | R | 23 | 2-Jan-99 | Bowler | krishnar@gmail.com | 9191930103 | null | right-hand |
| 18 | CCB02 | Kishore | K | 24 | 2-Sep-98 | ALL ROUNDER | kishorek@gmail.com | 9291930105 | left-hand | left-hand |
| 19 | TCB01 | Karthick | K | 24 | 14-Sep-98 | Batsman | karthickk@gmail.com | 9292930107 | right-hand | Null |
| 62 | TCB01 | Amar | J | 22 | 21-Sep-98 | Batsman | Amarj@gmail.com | 9292930508 | right-hand | Null |
| 102 | TCB02 | Akash | G | 21 | 26-Sep-99 | Batsman | Amarj@gmail.com | 9292930510 | right-hand | Null |
| 12 | TCB02 | Premkumar | S | 21 | 13-Oct-99 | Bowler | Premkumars@gmail.com | 9592930517 | null | right-hand |
| 1 | VCB01 | Prem | V | 23 | 13-Apr-97 | Bowler | Premkumars@gmail.com | 9592950517 | null | left-hand |
| 21 | VCB01 | Kali | J | 21 | 11-Apr-02 | Batsman | Kalij@gmail.com | 9592950630 | right-hand | Null |

| | | | | | | | | | | |
|-----|---------|------------|---|----|-----------|---------|-----------------------|------------|------------|-------------|
| 61 | VCB01 | Kamalesh | A | 22 | 21-Jun-01 | Batsman | Kamalesha@gmail.com | 9592958730 | right-hand | <i>Null</i> |
| 66 | VCB01 | Ganesh | V | 24 | 21-Jun-98 | Batsman | Ganeshv@gmail.com | 9592958790 | right-hand | <i>Null</i> |
| 303 | TRICB01 | Arun | T | 24 | 21-Oct-98 | Batsman | Ganeshv@gmail.com | 9592958450 | right-hand | <i>Null</i> |
| 313 | TRICB01 | Srinivasan | N | 24 | 21-Oct-98 | Batsman | srinivasann@gmail.com | 9992958450 | right-hand | <i>Null</i> |

Match:

| MatchID | TeamID | TeamID | Match_Date | Time | Result |
|---------|---------|--------|------------|------|---------------|
| M01 | CCB01 | TCB01 | 22-Jun-22 | 1.3 | TCB01 - WIN |
| M02 | CCB02 | TCB02 | 22-Jun-22 | 8.3 | CCB01 - WIN |
| M03 | TRICB01 | TCB01 | 24-Jun-22 | 8.3 | TCB01 - WIN |
| M04 | TRICB01 | TCB02 | 25-Jun-22 | 8.3 | TRICB01 - WIN |

Ground:

| GroundID | MatchID | Name | Location | Capacity |
|----------|---------|--------|------------|----------|
| GID01 | M01 | Nehru | Chennai | 10000 |
| GID02 | M02 | GK | Coimbatore | 10000 |
| GID03 | M03 | Sankar | Nellai | 6000 |

Umpire:

| UmpireID | FName | LNam e | Ag e | DateofBirt h | Countr y | Email | contact_no |
|----------|------------|-----------|---------|-----------------|-------------|----------------------|------------|
| UID01 | Venkatesh | T | 45 | 21-Jun-78 | INDIA | venkatesh@gmail.com | 9665571435 |
| UID02 | Muthukumar | R | 46 | 1-Jun-79 | INDIA | mutukumarr@gmail.com | 9665571460 |
| UID03 | Somu | K | 42 | 1-Jun-83 | INDIA | somuk@gmail.com | 9664471460 |

Umpire_Umpired:

| UmpireID | MatchID | GroundID |
|----------|---------|----------|
| UID01 | M01 | GID01 |
| UID02 | M03 | GID02 |

3.1: To retrieve the location of a particular match conducted by its MatchID

SQL> SELECT LOCATION FROM GROUND WHERE MatchID='M03';

Resul:

| Location |
|----------|
| Nellai |

3.2: To retrieve the Players detail whose name start with 'A'.

SQL> Select * from Player where FName like 'A%';

| PlayerID | TeamID | FName | LNam e | Ag e | DateofBirt h | PlayingRole | Email | contact_no |
|----------|--------|-------|-----------|---------|-----------------|-------------|-----------------|------------|
| 62 | TCB01 | Amar | J | 22 | 21-Sep-98 | Batsman | Amarj@gmail.com | 9292930508 |
| 102 | TCB02 | Akash | G | 21 | 26-Sep-99 | Batsman | Amarj@gmail.com | 9292930510 |

| | | | | | | | | |
|-----|---------|------|---|----|-----------|---------|-------------------|------------|
| 303 | TRICB01 | Arun | T | 24 | 21-Oct-98 | Batsman | Ganeshv@gmail.com | 9592958450 |
|-----|---------|------|---|----|-----------|---------|-------------------|------------|

3.3: Addacolumn Batting and BowlinginPlayertable.

SQL> Alter table player add Batting varchar(10);

Table Altered

SQL> Alter table player add Bowling varchar(10);

Table Altered

3.4: To countthenumberof right-hand batsman in a team.

SQL> Select count(*) from Player where Batting='right-hand';

Result:

| count(*) |
|----------|
| 9 |

3.5: To display the CricketBoard details for the BoardIDs 'BID01', 'BID03', and 'BID06'.

SQL> Select * from CricketBoard where BoardID in('BID01','BID03','BID06');

| BoardID | Name | Address | Contact_No |
|---------|--------------------------|------------|------------|
| BID01 | Chennai Cricket Board | Chennai | 9988776699 |
| BID03 | Viluppuram Cricket Board | Viluppuram | 9966886699 |
| BID06 | Tuticorin Cricket Board | Tuticorin | 9933886699 |

3.6: To select the names and IDs of players who are left-hand bowlers.

SQL> Select playerID, FName, LName from player where Bowling='left-hand';

| PlayerID | FName | LName |
|----------|-------|-------|
| | e | e |

| | | |
|----|---------|---|
| 1 | Raj | N |
| 18 | Kishore | K |
| 1 | Prem | V |

3.7: To find the UmpireID of umpires who have not umpired any match.

SQL> select a.UmpireID from Umpire a where UmpireID NOT IN(select UmpireID from Umpire_Umpired);

Result:

| UmpireID |
|-----------------|
| UID03 |

Result:

Thus the query processing on database for different retrieval result of query using Clauses, Operators and Functions in queries has been performed successfully.