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)

Academic Year: 2025–2026

SUMMER SEMESTER - SS2526

Course Code   : 10211CS207

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
VTU29311	24UECS0414	A.Amarendher

<h1 style="text-align:center">TASK3</h1>

<h2 style="text-align:center">Using Clauses, Operators and Functions in queries</h2>

Aim:

To perform the query processing on databases for different retrieval results of queries using DML,DRLoperations usingaggregate,date,string,indentfunctions,setclausesandoperators.

- To retrieve the location of a particular match conducted by its MatchID
- To retrievethePlayersdetailwhose name start with 'A'.
- Addacolumn Batting and BowlinginPlayertable.
- To countthenumberof 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:

PlayerID	TeamID	FName	LName	Age	DateofBirth	PlayingRole	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	*Null*
66	VCB01	Ganesh	V	24	21-Jun-98	Batsman	Ganeshv@gmail.com	9592958790	right-hand	*Null*
303	TRICB01	Arun	T	24	21-Oct-98	Batsman	Ganeshv@gmail.com	9592958450	right-hand	*Null*
313	TRICB01	Srinivasan	N	24	21-Oct-98	Batsman	srinivasann@gmail.com	9992958450	right-hand	*Null*

Match:

MatchID	TeamID	TeamID	Match_Date	Time1	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	LName	Age	DateofBirth	Country	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 retrievethePlayersdetailwhose name start with 'A'.

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

PlayerID	TeamID	FName	LName	Age	DateofBirth	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
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.