

## Using clauses, Operators and Functions in queries.

Aim:

TO Perform the query Processing on databases for different retrieval results of queries using DMZ, DPL operations using aggregate, date, string, evident functions, set clauses and operators.

- (i) To retrieve location of particular match conducted by its Match ID
- TO retrieve the players detail whose name start with
  - Add column Batting and Bowling in player table.
  - TO count number of right hand batsman in team.
  - TO display Cricket Board details for Board IDs 'BID01', 'BID03', and 'BID06'.
  - TO select the names and IDs of Players who are left-hand Bowlers
  - TO find umpireID of umpires who have not umpired any more Cricket Board.

Board ID	Name	Address	Contact - NO
BID01	Chennai Cricket Board	Chennai	9988716699
BID02	Tiruvallur Cricket Board	Chennai	9977886699
BID03	Villupuram Cricket Board	Villupuram	9966886699
BID04	Villupuram Cricket Board	Trichy	995588669
BID05	Trichy Cricket Board	Madurai	994488669
BID06	Tuticorin Cricket Board	Tuticorin	993388669
BID07	Selam Cricket Board	Selam	992288669
BID08	Tiruppur Cricket Board	Tiruppur	991188669

Team:

Team ID	Board ID	Name	Coach	Captain
CCB01	BID01	ABS EXPRESS	G.D. RAMESH	SAMPATH KUMAR
CCB02	BID01	AUGUST EXPRESS	T. KARTHIK	V. JOHN
TCB01	<del>BID02</del>	ANGRY BARD	TOM BABU	ANIL JOHN
TCB02	BID02	TIGER ROCK	S. KANNAN	BEN GEORGE
TRICB01	BID04	ROCK	K. PAUL	K. MUTHU
VACB01	BID03	RAIN BOW	S. RAJESH KUMAR	MANIMARAM
MRCB01	BID05	PANTHER	SARAVANAN	R. SUNIL KUMAR
TUCB01	BID06	THUNDER	D. ALEX	BARATHI
SCB01	BID07	EAGLE	SOMU	SRI HARI
TICB01	BID08	KINGS	D. ANAND	MATHAN

Player:

Player ID	Team ID	FName	Lname	Age	Date of Birth	Playing Role	Email	Contact No	Batting	Bowling
CCB01	RAJ	N	27	29-Jun-96	Bowler	rajn@gmail.com	9190252890	NULL	Left hand	
CCB01	Balaji	D	23	2-Jan-99	Batsman	balajid@gmail.com	9191910031	right hand	NULL	Right hand
CCB02	Krishna	R	23	2-Jan-99	Bowler	krishnar@gmail.com	9191234210	NULL	Right hand	
(CB02)	kishore	K	24	2-Sep-98	All Rounder	krisharek@gmail.com	9291438202	lefty hand	left hand	
TCB01	Karthick	K	24	14-Sep-98	Batsman	Karthickkk@gmail.com	913246929	right hand	NULL	
TCB01	Amar	J	22	21-Sep-98	Batsman	Amarj@gmail.com	9110587758	right hand	NULL	
TCB02	Akash	G	21	26-Sep-99	Batsman	Amarji@gmail.com	9573926429	right hand	NULL	
TCB02	premkumar	S	21	13-Oct-99	Bowler	premkunw@gmail.com	6301697163	NULL	right hand	
TCB02	Prem	V	23	13-Apr-97	Bowler	Premkunair@gmail.com	8919835449	NULL	left hand	
VCB01	Kali	J	21	11-Apr-02	Batsman	kali.j@gmail.com	9992958450	Right hand	NULL	
VCB01	Kamlesh	A	22	21-Jun-01	Batsman	kamalesha@gmail.com	9592958450	Right hand	NULL	
VCB01	Ganesh	V	24	21-Jun-98	Batsman	GaneshV@gmail.com	9592958710	Right hand	NULL	
TRICB01	ARUN	T	24	21-Oct-98	Batsman	GaneshV@gmail.com	9291930105	Right hand	NULL	
TRICB01	Srinivas	N	24	21-Oct-98	Batsman	srinivasnn@gmail.com	9992958450	Right hand	NULL	

# Match :

Match ID	TeamID	TeamID	Match Date	Time 1	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

Ground ID	Match ID	Name	Location	Capacity
GID001	M01	rehlu	Chennai	10000
GID002	M02	GK	Coimbatore	10000
GID003	M03	sankar	Nellai	6000

# Umpire

Umpire ID	FName	LName	Age	Date of Birth	Country	Email
UID001	Venkatesh	T	45	21-JUN-78	India	venkatesh@gmail.com
UID002	Muthukumar	R	46	1-JUN-79	India	muthukumar@gmail.com
UID003	SOMU	K	42	1-AUG-83	India	somuk@gmail.com

# Umpire - Umpired:

Umpire ID	Match ID	Ground ID
UID001	M01	GID001
UID002	M03	GID002

location of particular match conducted  
to retrieve the ~~players~~ detail whose name start with;

SQL > Select location from ground where match ID = m03.

Result :

Location
Nellai

3.2: TO retrieve the players detail whose name start with 'A'.

SQL > select \* from player where Fname like 'A%';

Player ID	Team ID	Fname	Lname	Age	Date of Birth	Playing Role	Email
	TCB01	Amar	J	22	21-Sep-98	Batsman	Amarj@gmail.com
	TCB02	Akash	G	21	26-Sep-99	Batsman	Akashj@gmail.com
	TRICB01	Arun	T	24	21-Dec-98	Batsman	Arunv@gmail.com

3.3. Add column Batting and Bowling in player table.

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

Table Altered;

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

Table Altered;

3.4: TO count the number of right hand batsman in team.

SQL > select count(\*) from player where batting = 'right hand';

Result:

count (*)
9

3.5: TO display the Cricket Board detail for Board IDs, 'BID01', 'BID03', and 'BID06'.

SQL > select \* from CricketBoard where Board ID

in ('BID01', 'BID03', 'BID06');

Board ID	Name	Address	Contact No
BID01	Chennai Cricket Board	Chennai	99882642
BID03	Viluppuram Cricket Board	Viluppuram	9573926424
BID06	Tuticorin Cricket Board	Tuticorin	9110587758

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

SQL > select Player ID, Fname, Lname from player where Bowling = 'left hand';

Player ID	Fname	Lname
1	Raj	N
18	Kishore	K
1	Prem	V

3.7 To find 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: matching 8P-9P-15 SS TC 100A 10A ST

UmpireID
UID03.

Not required to do direct join or full outer join here.

Condition (a) condition satisfied true for all < 100A

Condition (b) condition satisfied when UmpireID < 100A

Condition (c) condition satisfied when UmpireID < 100A

Condition (d) condition satisfied when UmpireID < 100A

Condition (e) condition satisfied when UmpireID < 100A

Condition (f) condition satisfied when UmpireID < 100A

Condition (g) condition satisfied when UmpireID < 100A

Condition (h) condition satisfied when UmpireID < 100A

Condition (i) condition satisfied when UmpireID < 100A

Condition (j) condition satisfied when UmpireID < 100A

Condition (k) condition satisfied when UmpireID < 100A

Condition (l) condition satisfied when UmpireID < 100A

Condition (m) condition satisfied when UmpireID < 100A

Condition (n) condition satisfied when UmpireID < 100A

Condition (o) condition satisfied when UmpireID < 100A

Condition (p) condition satisfied when UmpireID < 100A

Condition (q) condition satisfied when UmpireID < 100A

Condition (r) condition satisfied when UmpireID < 100A

Condition (s) condition satisfied when UmpireID < 100A

Condition (t) condition satisfied when UmpireID < 100A

Condition (u) condition satisfied when UmpireID < 100A

Condition (v) condition satisfied when UmpireID < 100A

Condition (w) condition satisfied when UmpireID < 100A

Condition (x) condition satisfied when UmpireID < 100A

Condition (y) condition satisfied when UmpireID < 100A

Condition (z) condition satisfied when UmpireID < 100A

VEL TECH	
GU. 1307	EX NO.
PROCEDURE	PERFORMANCE (5)
RESULT AND ANALYSIS (5)	
VIVA VOCE (5)	
RECORD (5)	
TOTAL (20)	
SIGN WITH DATE	

Result: Thus query processing on database for different retrieval result of query using clauses, operators and functions in queries has been performed successfully.