# BUAN 6320.002

# CHESS TOURNAMENT PROJECT INDIVIDUAL PROJECT ASSIGNMENT MILESTONE-3

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# 1) Creating the Chess Database:

#### **SQL Commands:**

```
Create database Chessdatabase;
use Chessdatabase;
```

### 2) Creating the Tables:

I have created 8 Tables which are as following: Ranking Table, Tournament Table, Chess Club Table, Player Table, Refree Table, Result Table, Match Table, Sponsor Table.

#### **RANKING TABLE:** In ranking table the PK is Ranking\_ID.

```
CREATE TABLE Ranking

(

Ranking_ID VARCHAR(15) NOT NULL UNIQUE,
Rank_description VARCHAR(15) NOT NULL,

CONSTRAINT pk_Ranking PRIMARY KEY (Ranking_Id)
);

110 % 
Results Messages

Ranking_ID Rank_description
```

# TOURNAMENT TABLE: In Tournament table the PK is Tournament\_ID.

```
CREATE TABLE Tournament

(
Tournament_ID VARCHAR(15) NOT NULL UNIQUE,
Tournament_Name VARCHAR(15) NOT NULL,
Tournament_Year VARCHAR(15) NOT NULL,
CONSTRAINT pk_Tournament PRIMARY KEY (Tournament_ID)
);

Results Messages

Tournament_ID Tournament_Name Tournament_Year
```

# CHESS CLUB TABLE: In Chess Club table the PK is Club\_ID and FK is Tournament\_ID

```
CREATE TABLE Chess_Club
(
Club_ID VARCHAR(15) NOT NULL UNIQUE,
Club_Name VARCHAR(15) NOT NULL,
CONSTRAINT pk_Chess_Club PRIMARY KEY (Club_id ),
```

```
Tournament_ID VARCHAR(15) NOT NULL REFERENCES Tournament(Tournament_ID),
);

Results Messages

Club_ID Club_Name Tournament_ID
```

#### PLAYER TABLE In Player table the PK is Player\_ID and FK are Ranking\_ID, Club\_ID

```
CREATE TABLE Player

(
    Player_ID VARCHAR(15) NOT NULL UNIQUE,
    Ranking_ID VARCHAR(15) NOT NULL REFERENCES Ranking(Ranking_ID),
    Club_ID VARCHAR(15) NOT NULL REFERENCES Chess_Club(Club_id),
    Player_FirstName VARCHAR(15) NOT NULL,
    Player_LastName VARCHAR(15) NOT NULL,
    Player_Address VARCHAR(100),
    CONSTRAINT pk_Player PRIMARY KEY (Player_ID)
    );

Results Messages

Player_ID Ranking_ID Club_ID Player_FirstName Player_LastName Player_Address
```

#### SPONSORS TABLE In Sponsors table the PK is Sponsor\_ID and FK is Club\_ID

```
CREATE TABLE Sponsors

(
    Sponsors_ID VARCHAR(15) NOT NULL UNIQUE,
    Club_ID VARCHAR(15) NOT NULL REFERENCES Chess_Club(Club_id ),
    Sponsor_Name VARCHAR(15) NOT NULL,
    Sponsor_Address VARCHAR(100) ,
        Sponsor_PhoneNumber VARCHAR(15) ,
    CONSTRAINT pk_Sponsors PRIMARY KEY (Sponsors_ID )
    );

Results Messages

Sponsors_ID Club_ID Sponsor_Name Sponsor_Address Sponsor_PhoneNumber
```

#### REFREE TABLE In Refree table the PK is Refree\_ID.

```
CREATE TABLE Refree

(
Refree_ID VARCHAR(15) NOT NULL UNIQUE,
Refree_FirstName VARCHAR(15) NOT NULL,
Refree_LastName VARCHAR(15),
Refree_Address VARCHAR(100)NOT NULL,
CONSTRAINT pk Refree PRIMARY KEY (Refree ID )
```

```
Refree_ID Refree_FirstName Refree_LastName Refree_Address

RESULT TABLE In Result table the PK is Result_ID.

CREATE TABLE Result
```

```
Result_ID VARCHAR(15) NOT NULL UNIQUE,
Result_description VARCHAR(15) NOT NULL,
CONSTRAINT pk_Result PRIMARY KEY (Result_ID )
);

Results Messages
Result_ID Result_description
```

<u>MATCH TABLE</u> In Match table the PK is Surr\_ID(Surrogate Key) and FK are Tournament\_ID, Refree\_ID, Result\_ID.

```
CREATE TABLE Match

(
Surr_ID VARCHAR (15) NOT NULL UNIQUE,

Match_ID VARCHAR(15) NOT NULL,

Tournament_ID VARCHAR(15) NOT NULL REFERENCES Tournament(Tournament_ID),

Refree_ID VARCHAR(15) NOT NULL REFERENCES Refree(Refree_ID),

Result_ID VARCHAR(15) NOT NULL REFERENCES Result(Result_ID),

Match_Name VARCHAR(15),

CONSTRAINT pk_Surr PRIMARY KEY (Surr_ID)

);

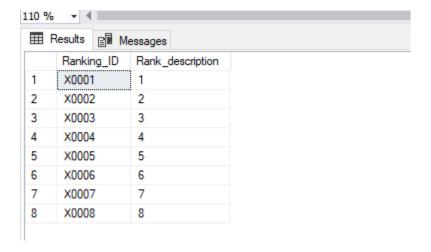
Sur_ID Match_ID Tournament_ID Refree_ID Result_ID Match_Name
```

# 3) <u>Inserting the values in the tables :</u>

#### **Inserting the values in RANKING TABLE and SELECTING ALL:**

```
INSERT INTO Ranking VALUES('X0001','1');
INSERT INTO Ranking VALUES('X0002','2');
INSERT INTO Ranking VALUES('X0003','3');
INSERT INTO Ranking VALUES('X0004','4');
INSERT INTO Ranking VALUES('X0005','5');
INSERT INTO Ranking VALUES('X0006','6');
INSERT INTO Ranking VALUES('X0007','7');
INSERT INTO Ranking VALUES('X0008','8');

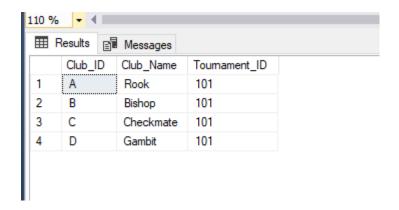
SELECT * FROM Ranking;
```



## Inserting the values in TOURNAMENT TABLE and SELECTING ALL:

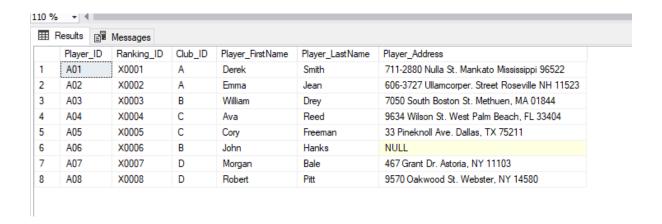
#### Inserting the values in CHESS CLUB TABLE and SELECTING ALL:

```
INSERT INTO Chess_Club VALUES('A', 'Rook', '101');
INSERT INTO Chess_Club VALUES('B', 'Bishop', '101');
INSERT INTO Chess_Club VALUES('C', 'Checkmate', '101');
INSERT INTO Chess_Club VALUES('D', 'Gambit', '101');
SELECT * FROM Chess_Club;
```



#### Inserting the values in PLAYER TABLE and SELECTING ALL:

```
INSERT INTO Player VALUES('A01', 'X0001', 'A', 'Derek', 'Smith', '711-2880 Nulla St.
Mankato Mississippi 96522');
INSERT INTO Player VALUES('A02','X0002', 'A', 'Emma','Jean','606-3727 Ullamcorper.
Street Roseville NH 11523');
INSERT INTO Player VALUES('A03', 'X0003', 'B', 'William', 'Drey', '7050 South Boston St.
Methuen, MA 01844');
INSERT INTO Player VALUES('A04','X0004', 'C', 'Ava','Reed','9634 Wilson St. West Palm
Beach, FL 33404');
INSERT INTO Player VALUES('A05', 'X0005', 'C', 'Cory', 'Freeman', '33 Pineknoll Ave.
Dallas, TX 75211');
INSERT INTO Player VALUES('A06','X0006', 'B','John','Hanks',NULL);
INSERT INTO Player VALUES('A07', 'X0007', 'D', 'Morgan', 'Bale', '467 Grant Dr. Astoria,
NY 11103');
INSERT INTO Player VALUES('A08','X0008', 'D', 'Robert', 'Pitt','9570 Oakwood St.
Webster, NY 14580');
SELECT * FROM Player;
```



#### Inserting the values in SPONSORS TABLE and SELECTING ALL:

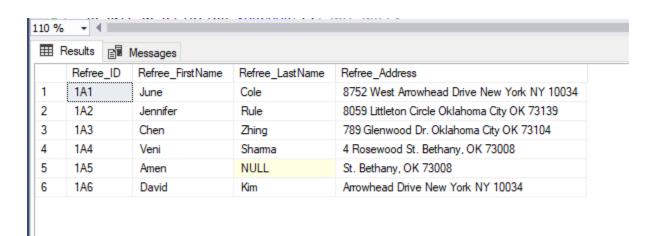
```
INSERT INTO Sponsors VALUES('S0001', 'A', 'Honda', '1919 Torrance Boulevard Torrance
CA 90501-2746 USA','209-200-6239');
INSERT INTO Sponsors VALUES('S0002', 'A','Dell', 'One Dell Way Round Rock, Texas
78682', '316-754-5323');
```

```
INSERT INTO Sponsors VALUES('S0003','A','Coco-Cola' ,NULL,'250 375-9756');
INSERT INTO Sponsors VALUES('S0004', 'B', 'Red Bull', '1455 Market St. in San
Francisco, California.', NULL);
INSERT INTO Sponsors VALUES('S0005', 'C', 'Acer', '410 Terry Ave. North Seattle WA 98109-5210', '211 313-2647');
INSERT INTO Sponsors VALUES('S0006', 'C', 'Microsoft','410 Terry Ave. North Seattle WA, 98109-5210','212 233-4642');
INSERT INTO Sponsors VALUES('S0007', 'D', 'HBO',NULL, NULL);
SELECT * FROM Sponsors;
```

	Sponsors_ID	Club_ID	Sponsor_Name	Sponsor_Address	Sponsor_PhoneNumber
1	S0001	Α	Honda	1919 Torrance Boulevard Torrance CA 90501-2746 USA	209-200-6239
2	S0002	Α	Dell	One Dell Way Round Rock, Texas 78682	316-754-5323
3	S0003	Α	Coco-Cola	NULL	250 375-9756
4	S0004	В	Red Bull	1455 Market St. in San Francisco, California.	NULL
5	S0005	С	Acer	410 Terry Ave. North Seattle WA 98109-5210	211 313-2647
6	S0006	С	Microsoft	410 Terry Ave. North Seattle WA, 98109-5210	212 233-4642
7	S0007	D	HBO	NULL	NULL

#### **Inserting the values in REFREE TABLE and SELECTING ALL:**

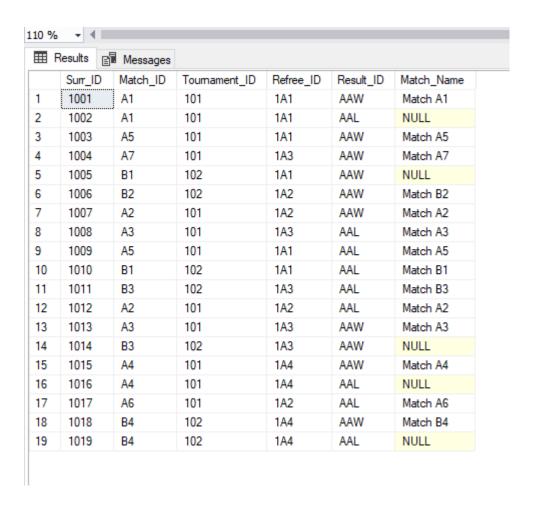
```
INSERT INTO Refree VALUES('1A1','June', 'Cole','8752 West Arrowhead Drive New York NY
10034');
INSERT INTO Refree VALUES('1A2','Jennifer','Rule','8059 Littleton Circle Oklahoma City
OK 73139');
INSERT INTO Refree VALUES('1A3','Chen','Zhing','789 Glenwood Dr. Oklahoma City OK
73104');
INSERT INTO Refree VALUES('1A4','Veni','Sharma', '4 Rosewood St. Bethany, OK 73008');
INSERT INTO Refree VALUES('1A5','Amen', NULL, 'St. Bethany, OK 73008');
INSERT INTO Refree VALUES('1A6','David', 'Kim', 'Arrowhead Drive New York NY 10034');
SELECT * FROM Refree;
```



#### Inserting the values in RESULT TABLE and SELECTING ALL:

#### Inserting the values in MATCH TABLE and SELECTING ALL:

```
INSERT INTO Match VALUES( '1001', 'A1','101','1A1','AAW','Match A1');
INSERT INTO Match VALUES('1002','A1','101', '1A1','AAW', Match A5');
INSERT INTO Match VALUES('1003','A5','101','1A1','AAW', Match A5');
INSERT INTO Match VALUES('1004','A7','101','1A3','AAW', 'Match A7');
INSERT INTO Match VALUES('1005','B1','102','1A1','AAW', NULL);
INSERT INTO Match VALUES('1006','B2','102','1A2','AAW','Match B2');
INSERT INTO Match VALUES('1007','A2','101','1A2','AAW','Match A2');
INSERT INTO Match VALUES('1008','A3','101','1A3','AAL','Match A3');
INSERT INTO Match VALUES('1009','A5','101','1A1','AAL','Match A5');
INSERT INTO Match VALUES('1010','B1','102','1A1','AAL','Match B1');
INSERT INTO Match VALUES('1011','B3','102','1A3','AAL','Match B3');
INSERT INTO Match VALUES('1012','A2','101','1A2','AAL','Match A2');
INSERT INTO Match VALUES('1013','A3','101','1A3','AAW','Match A3');
INSERT INTO Match VALUES('1011','A6','101','1A2','AAW','Match A6');
INSERT INTO Match VALUES('1013','B2','102','1A3','AAW','Match A6');
INSERT INTO Match VALUES('1013','B2','102','1A3','AAW','Match A7');
INSERT INTO Match VALUES('1014','B3','102','1A3','AAW','Match A4');
INSERT INTO Match VALUES('1015','A4','101','1A4','AAW','Match A4');
INSERT INTO Match VALUES('1016','A4','101','1A4','AAW','Match A6');
INSERT INTO Match VALUES('1017','A6','101','1A4','AAW','Match A6');
INSERT INTO Match VALUES('1016','A4','101','1A4','AAW','Match A6');
INSERT INTO Match VALUES('1018','B4','101','1A4','AAW','Match B4');
INSERT INTO Match VALUES('1018','B4','102','1A4','AAW','Match B4');
INSERT INTO Match VALUES('1019','B4','102','1A4','AAW','Match B4
```

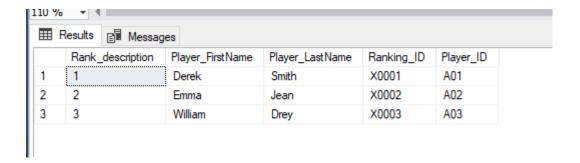


#### 4) INNER JOIN

Create inner joins between two tables and explain what is the purpose of your join?

**Purpose:** The purpose of creating this INNER JOIN is to check the Players with top 3 Ranks from Players and Ranking tables.

```
SELECT r.Rank_description, p.Player_FirstName, p.Player_LastName, r.Ranking_ID,
p.Player_ID
from Player p
INNER JOIN Ranking r
ON p.Ranking_ID = r.Ranking_ID
WHERE r.Rank_description < 4</pre>
```

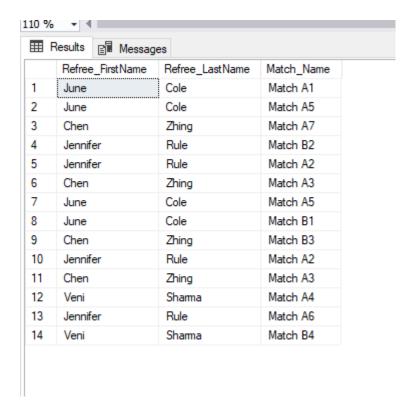


#### 5) FULL JOIN:

Create full joins between two tables and explain what is the purpose of your join?

**Purpose:** The purpose of creating this FULL JOIN is to find which Refree monitors which Matches from Refree table and Match Table.

```
SELECT r.Refree_FirstName, r.Refree_LastName, m.Match_Name
from Match m
FULL OUTER JOIN Refree r
ON m.Refree_ID = r.Refree_ID
WHERE Match_Name IS NOT NULL;
```

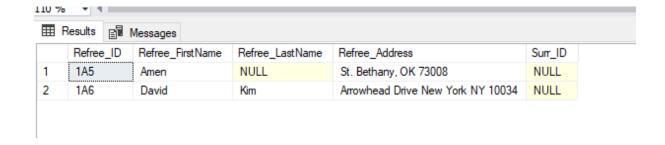


#### 6) LEFT OUTER JOIN

Create left outer joins between two tables and explain what is the purpose of your join

**Purpose:** The purpose of creating this LEFT OUTER JOIN is to find the information of the Refrees who don't monitor matches.

```
SELECT r.Refree_ID, r.Refree_FirstName, r.Refree_LastName, r.Refree_Address,
m.Surr_ID
from Refree r
LEFT OUTER JOIN Match m
ON r.Refree_ID = m.Refree_ID
WHERE Surr_ID IS NULL;
```

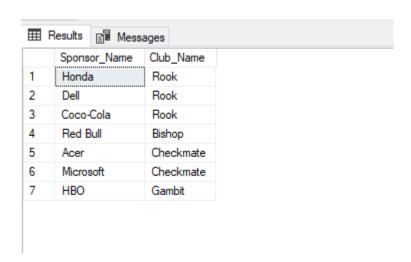


#### 7) RIGHT OUTER JOIN

Create right outer joins between two tables and explain what is the purpose of your join ?

**Purpose:** The purpose of creating this RIGHT OUTER JOIN is to find the Names of the Clubs sponsored by different sponsors from Chess\_Club and Sponsor table

```
SELECT s.Sponsor_Name, c.Club_Name
from Sponsors s
RIGHT OUTER JOIN Chess_Club c
ON s.Club_ID = c.Club_ID;
```

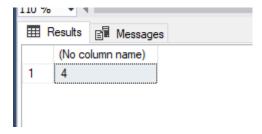


# 8) INTERSECT

# Create intersect between two tables and explain what is the purpose of your intersect?

**Purpose:** The purpose of creating this INTERSECT is to Count all the refrees who monitor the matches. Not all refree monitor the matches. Only 4 Refrees out of the 6 Refrees monitor the matches. Rest 2 refrees don't monitor the matches

```
SELECT COUNT(*) FROM
(
SELECT Refree_ID FROM Match
INTERSECT
SELECT Refree_ID FROM Refree
)I
```



# 9) UNION

Create a union between two tables and explain what is the purpose of your union?

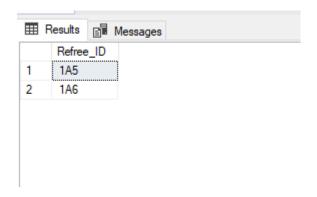
**Purpose:** The purpose of creating this UNION is to get all the Club IDs which are sponsored by sponsors.

# 10) EXCEPT

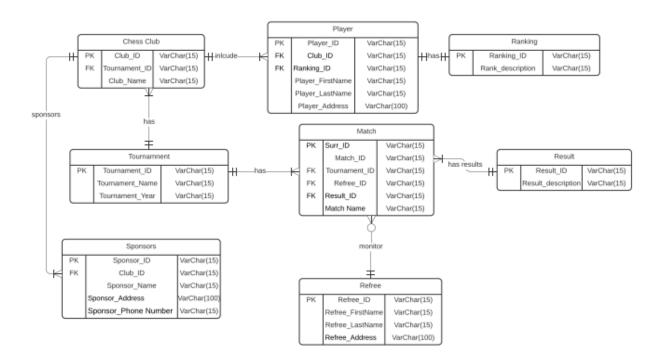
### Create except between two tables and explain what is the purpose of your except?

**Purpose:** The purpose of creating this EXCEPT is to get refree ID who don't monitor any matches.

SELECT Refree\_ID FROM Refree
EXCEPT
SELECT Refree\_ID FROM Match



# **11)** ERD



### **12)** Codes:

```
Create database Chessdatabase;
use Chessdatabase;
-----CREATE RANKING TABLE-----
CREATE TABLE Ranking
  Ranking_ID VARCHAR(15) NOT NULL UNIQUE,
 Rank description VARCHAR(15) NOT NULL,
CONSTRAINT pk Ranking PRIMARY KEY (Ranking Id)
INSERT INTO Ranking VALUES('X0001','1');
INSERT INTO Ranking VALUES('X0002','2');
INSERT INTO Ranking VALUES('X0003','3');
INSERT INTO Ranking VALUES('X0004','4');
INSERT INTO Ranking VALUES('X0005','5');
INSERT INTO Ranking VALUES('X0006','6');
INSERT INTO Ranking VALUES('X0007','7');
INSERT INTO Ranking VALUES('X0008','8');
SELECT * FROM Ranking;
CREATE TABLE Tournament
 Tournament ID
                VARCHAR(15) NOT NULL UNIQUE,
 Tournament_Name VARCHAR(15) NOT NULL,
 Tournament_Year VARCHAR(15) NOT NULL,
CONSTRAINT pk_Tournament PRIMARY KEY (Tournament_ID)
 );
INSERT INTO Tournament VALUES('101','Prodigies','2019');
INSERT INTO Tournament VALUES('102', 'Avengers', '2020');
SELECT * FROM Tournament;
-----CREATE CHESS CLUB TABLE-----
CREATE TABLE Chess_Club
          VARCHAR(15) NOT NULL UNIQUE,
 Tournament ID VARCHAR(15) NOT NULL REFERENCES Tournament(Tournament ID),
 Club Name VARCHAR(15) NOT NULL,
 CONSTRAINT pk Chess Club PRIMARY KEY (Club id ),
   );
INSERT INTO Chess_Club VALUES('A', 'Rook', '101');
INSERT INTO Chess_Club VALUES('B', 'Bishop', '101');
INSERT INTO Chess_Club VALUES('C', 'Checkmate', '101');
INSERT INTO Chess_Club VALUES('D', 'Gambit', '101');
SELECT * FROM Chess_Club;
```

```
CREATE TABLE Player
  Player_ID VARCHAR(15) NOT NULL UNIQUE,
  Ranking ID VARCHAR(15) NOT NULL REFERENCES Ranking (Ranking ID),
  Club_ID VARCHAR(15) NOT NULL REFERENCES Chess_Club(Club_id),
 Player FirstName VARCHAR(15) NOT NULL,
  Player LastName VARCHAR(15) NOT NULL,
  Player_Address VARCHAR(100) ,
CONSTRAINT pk_Player PRIMARY KEY (Player_ID)
 );
INSERT INTO Player VALUES('A01', 'X0001', 'A', 'Derek', 'Smith', '711-2880 Nulla St.
Mankato Mississippi 96522');
INSERT INTO Player VALUES('A02', 'X0002', 'A', 'Emma', 'Jean', '606-3727 Ullamcorper.
Street Roseville NH 11523');
INSERT INTO Player VALUES('A03', 'X0003', 'B', 'William', 'Drey', '7050 South Boston St.
Methuen, MA 01844');
INSERT INTO Player VALUES('A04','X0004', 'C', 'Ava','Reed','9634 Wilson St. West Palm
Beach, FL 33404');
INSERT INTO Player VALUES('A05','X0005', 'C', 'Cory','Freeman', '33 Pineknoll Ave.
Dallas, TX 75211');
INSERT INTO Player VALUES('A06','X0006', 'B','John','Hanks',NULL);
INSERT INTO Player VALUES('A07','X0007', 'D','Morgan','Bale','467 Grant Dr. Astoria,
NY 11103');
INSERT INTO Player VALUES('A08','X0008', 'D', 'Robert', 'Pitt','9570 Oakwood St.
Webster, NY 14580');
SELECT * FROM Player;
-----CREATE SPONSORS TABLE-----
CREATE TABLE Sponsors
  (
  Sponsors ID VARCHAR(15) NOT NULL UNIQUE,
  Club_ID VARCHAR(15) NOT NULL REFERENCES Chess_Club(Club_id ),
 Sponsor Name VARCHAR(15) NOT NULL,
  Sponsor Address VARCHAR(100)
   Sponsor PhoneNumber VARCHAR(15)
CONSTRAINT pk Sponsors PRIMARY KEY (Sponsors ID )
 );
INSERT INTO Sponsors VALUES('S0001', 'A', 'Honda', '1919 Torrance Boulevard Torrance
CA 90501-2746 USA', '209-200-6239');
INSERT INTO Sponsors VALUES('S0002', 'A', 'Dell', 'One Dell Way Round Rock, Texas
78682', '316-754-5323');
INSERT INTO Sponsors VALUES('S0003','A','Coco-Cola'
                                                    ,NULL, '250 375-9756');
INSERT INTO Sponsors VALUES('S0004', 'B', 'Red Bull', '1455 Market St. in San
Francisco, California.', NULL);
INSERT INTO Sponsors VALUES('S0005', 'C', 'Acer', '410 Terry Ave. North Seattle WA
98109-5210', '211 313-2647');
INSERT INTO Sponsors VALUES('S0006', 'C', 'Microsoft', '410 Terry Ave. North Seattle
WA, 98109-5210', '212 233-4642');
INSERT INTO Sponsors VALUES('S0007', 'D', 'HBO', NULL, NULL);
SELECT * FROM Sponsors;
```

```
-----CREATE REFREE TABLE------
CREATE TABLE Refree
    Refree_ID     VARCHAR(15) NOT NULL UNIQUE,
   Refree_FirstName VARCHAR(15) NOT NULL,
    Refree LastName VARCHAR(15) ,
     Refree Address VARCHAR(100)NOT NULL ,
 CONSTRAINT pk Refree PRIMARY KEY (Refree ID )
   );
INSERT INTO Refree VALUES('1A1','June', 'Cole', '8752 West Arrowhead Drive New York NY
10034');
INSERT INTO Refree VALUES('1A2','Jennifer',
                                                                  'Rule'.
                                                                                      '8059 Littleton Circle
Oklahoma City OK 73139');
INSERT INTO Refree VALUES('1A3','Chen', 'Zhing', '789 Glenwood Dr. Oklahoma City OK
INSERT INTO Refree VALUES('1A4','Veni', 'Sharma','4 Rosewood St. Bethany, OK 73008');
INSERT INTO Refree VALUES('1A5','Amen', NULL, 'St. Bethany, OK 73008');
INSERT INTO Refree VALUES('1A6','David','Kim', 'Arrowhead Drive New York NY 10034');
SELECT * FROM Refree;
-----CREATE RESULT TABLE-----
CREATE TABLE Result
   (
    Result ID VARCHAR(15) NOT NULL UNIQUE,
   Result_description VARCHAR(15) NOT NULL,
 CONSTRAINT pk Result PRIMARY KEY (Result ID )
   );
INSERT INTO Result VALUES('AAW','Won');
INSERT INTO Result VALUES('AAL','Lost');
SELECT * FROM Result;
-----CREATE MATCH TABLE-----
CREATE TABLE Match
   Surr ID VARCHAR (15) NOT NULL UNIOUE,
    Match ID VARCHAR(15) NOT NULL,
    Tournament ID VARCHAR(15) NOT NULL REFERENCES Tournament(Tournament ID ),
    Refree ID VARCHAR(15) NOT NULL REFERENCES Refree (Refree ID),
    Result ID VARCHAR(15) NOT NULL REFERENCES Result(Result ID),
   Match Name VARCHAR(15),
  CONSTRAINT pk Surr PRIMARY KEY (Surr ID)
   );
INSERT INTO Match VALUES( '1001', 'A1','101','1A1','AAW','Match A1');
INSERT INTO Match VALUES('1002','A1','101', '1A1','AAW','Match A5');
INSERT INTO Match VALUES('1003','A5','101','1A1','AAW','Match A5');
INSERT INTO Match VALUES('1004','A7','101','1A3','AAW', 'Match A7');
INSERT INTO Match VALUES('1005','B1','102','1A1','AAW', NULL);
INSERT INTO Match VALUES('1006','B2','102','1A2','AAW','Match B2');
INSERT INTO Match VALUES('1007','A2','101','1A2','AAW','Match A2');
INSERT INTO Match VALUES('1008','A3','101','1A3','AAL','Match A3');
INSERT INTO Match VALUES('1009','A5','101','1A1','AAL','Match B1');
```

```
INSERT INTO Match VALUES('1011','B3','102', '1A3','AAL','Match B3');
INSERT INTO Match VALUES('1012','A2','101', '1A2','AAL','Match A2');
INSERT INTO Match VALUES('1013','A3','101','1A3','AAW','Match A3');
INSERT INTO Match VALUES('1011','A6','101','1A2','AAW','Match A6');
INSERT INTO Match VALUES('1012','A7','101', '1A3','AAL','Match A7');
INSERT INTO Match VALUES('1013','B2','102', '1A2','AAL','Match B2');
INSERT INTO Match VALUES('1014','B3','102','1A3','AAW',NULL);
INSERT INTO Match VALUES('1015','A4','101', '1A4','AAW','Match A4');
INSERT INTO Match VALUES('1016','A4','101', '1A4','AAL', NULL);
INSERT INTO Match VALUES('1017','A6','101','1A2','AAL','Match A6');
INSERT INTO Match VALUES('1018','B4','102', '1A4','AAW','Match B4');
INSERT INTO Match VALUES('1019','B4','102', '1A4','AAL', NULL);
SELECT * FROM Match ;
---- INNER JOIN between players and Ranks. Top 3 players with ranks top 3-----
SELECT r.Rank description, p.Player FirstName, p.Player LastName, r.Ranking ID,
p.Player ID
from Player p
INNER JOIN Ranking r
ON p.Ranking_ID = r.Ranking_ID
WHERE r.Rank_description < 4</pre>
-----FULL OUTER JOIN Refrees monitor which matches ------
SELECT r.Refree FirstName, r.Refree LastName, m.Match Name
from Match m
FULL OUTER JOIN Refree r
ON m.Refree ID = r.Refree ID
WHERE Match_Name IS NOT NULL;
-----RIGHT JOIN sponsors sponsor which clubs-----
SELECT s.Sponsor_Name, c.Club_Name
from Sponsors s
RIGHT OUTER JOIN Chess Club c
ON s.Club ID = c.Club ID;
-----LEFT OUTER JOIN Information of the Refrees who don't monitor the matches-
SELECT r.Refree ID, r.Refree FirstName, r.Refree LastName, r.Refree Address,
m.Surr ID
from Refree r
LEFT OUTER JOIN Match m
ON r.Refree ID = m.Refree ID
WHERE Surr ID IS NULL;
-----UNION getting all the club IDs which are sponsored by sponsors------
 SELECT Club_ID FROM Sponsors
 UNION
 SELECT Club_ID FROM Chess_Club;
 -----INTERSECT All the matches have been checked by how many refrees?
SELECT COUNT(*) FROM
```