

Player.TourneyCode = Tournament.code Tournaent.Owner = Admin.Username

Sample Data For Each Table:

SELECT * FROM Player;

Name	 PlayerID 	TourneyCode	+ Wins +	 Losses 	+ MatchNo
Player 1	1	Tourney1	0	0	1
Player 2	2	Tourney1	0	0	1
Player 3	3	Tourney1	0	0	2
Player 4	4	Tourney1	0	0	2
Player 5	5	Tourney1	0	0	3
Player 6	6	Tourney1	0	0	3
Player 7	7	Tourney1	0	0	4
Player 8	8	Tourney1	0	0	4
Player 9	9	Tourney2	0	0	1
Player 10	10	Tourney2	0	0	4
Player 11	11	Tourney2	0	0	1
Player 12	12	Tourney2	0	0	2
Player 13	13	Tourney2	0	0	2
Player 14	14	Tourney2	0	0	3
Player 15	15	Tourney2	0	0	3
Player 16	16	Tourney2	0 +	0	4

16 rows in set (0.00 sec)

^{*} Italicized Fields are Primary Keys

^{*} Underlined Fields are Foreign Keys

TournamentName	Password	Code	+ StartDate +	NumPlayers	RoundNo	 MatchNo	++ Owner
Test Tournament 1 Test Tournament 2	· ±	_	2018-04-08 2018-04-08	8	 1 1		TourneyAdmin1 TourneyAdmin2

2 rows in set (0.00 sec)

SELECT * FROM Admin;

Username	 Password	Email
TourneyAdmin1 TourneyAdmin2	-	name@gmail.com diffname@gmail.com
2 rows in set (0.	.00 sec)	

Example of How We Would Pull Player Info For Each Tournament:

```
SELECT Name AS 'Participants of Test Tournament 1', Player.MatchNo
    FROM Player
    LEFT JOIN Tournament
        ON Player.TourneyCode = Tournament.Code
RIGHT JOIN Admin
        ON Admin.Username = Tournament.Owner
WHERE Admin.Username = 'TourneyAdmin1'
        AND TournamentName = 'Test Tournament 1'
ORDER BY Player.MatchNo ASC;
```

+	++
Participants of Test Tournament 1	MatchNo
+	++
Player 2	1
Player 1	1
Player 3	2
Player 4	2
Player 5	3
Player 6	3
Player 7	4
Player 8	4
+	++

8 rows in set (0.01 sec)

Example of How We Would Update Wins, Losses, and Next Matches for Round I

```
UPDATE Player
    SET Wins = Wins + 1, MatchNo = CEIL(MatchNo/2) + 4
    WHERE PlayerID = 1
        OR PlayerID = 2
        OR PlayerID = 6
        OR PlayerID = 7;
UPDATE Player
    SET Losses = Losses + 1
    WHERE PlayerID = 3
        OR PlayerID = 4
        OR PlayerID = 5
        OR PlayerID = 8;
SELECT Name AS 'Participants of Test Tournament 1', Player.MatchNo, Wins,
Losses
    FROM Player
    LEFT JOIN Tournament
        ON Player.TourneyCode = Tournament.Code
    RIGHT JOIN Admin
        ON Admin.Username = Tournament.Owner
    WHERE Admin. Username = 'TourneyAdmin1'
        AND Code = 'Tourney1'
    ORDER BY Player.MatchNo DESC;
+----+
| Participants of Test Tournament 1 | MatchNo | Wins | Losses |
+----+
                                     6 |
| Player 6
                                           1 |
                                     6 |
                                           1 |
| Player 7
                                                   0 |
                                     5 | 1 |
                                                   0 1
| Plaver 1
                                     5 | 1 |
4 | 0 |
3 | 0 |
| Player 2
                                                   0 1
| Player 4
| Player 5
                                                   1 |
```

+----+

2 | 0 |

1 | 0 | 1 |

| Player 8

| Plaver 3

8 rows in set (0.00 sec)

Example of How Data is Updated After Final Round is Complete

```
UPDATE Player
   SET Wins = Wins + 1
   WHERE PlayerID = 7;
UPDATE Player
   SET Losses = Losses + 1
   WHERE PlayerID = 1;
SELECT Name AS 'Participants of Test Tournament 1', Player.MatchNo, Wins,
Losses
   FROM Player
   LEFT JOIN Tournament
      ON Player. TourneyCode = Tournament. Code
   RIGHT JOIN Admin
       ON Admin.Username = Tournament.Owner
   WHERE Admin. Username = 'TourneyAdmin1'
       AND Code = 'Tourney1'
   ORDER BY Player. MatchNo DESC, Player. Wins DESC;
UPDATE Tournament
   INNER JOIN Player
       ON Player. TourneyCode = Tournament. Code
   SET Winner = (
       SELECT Name
          FROM Player
          WHERE TourneyCode = 'Tourney1'
          ORDER BY Wins DESC
          LIMIT 1
   WHERE TourneyCode = 'Tourney1';
SELECT * FROM Tournament;
+----+
| Participants of Test Tournament 1 | MatchNo | Wins | Losses |
+----+
                               7 | 3 |
| Player 7
                               7 |
                                    2 |
| Player 1
                              6 | 1 | 5 | 1 |
| Player 6
| Player 2
| Player 4
                               4 |
                                    0 |
                               3 |
| Player 5
                                    0 |
| Player 8
                               2 |
                                    0 1
                                          1 |
| Player 3
                               1 |
                                   0 1
            .______
8 rows in set (0.00 sec)
| TournamentName | Password | Code | StartDate | NumPlayers | RoundNo | MatchNo | Winner | Owner |
2 rows in set (0.00 sec)
```