



Player.TourneyCode = Tournament.code

Tournaent.Owner = Admin.Username

* *Italicized Fields are Primary Keys*

* Underlined Fields are Foreign Keys

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)

```
SELECT * FROM Tournament;
```

```
+-----+-----+-----+-----+-----+-----+-----+-----+
| TournamentName | Password | Code   | StartDate | NumPlayers | RoundNo | MatchNo | Winner | Owner          |
+-----+-----+-----+-----+-----+-----+-----+-----+
| Test Tournament 1 | passw   | Tourney1 | 2018-04-08 | 8          | 1       | 1       | NULL   | TourneyAdmin1 |
| Test Tournament 2 | passw   | Tourney2 | 2018-04-08 | 8          | 1       | 1       | NULL   | TourneyAdmin2 |
+-----+-----+-----+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```

```
SELECT * FROM Admin;
```

```
+-----+-----+-----+
| Username | Password | Email |
+-----+-----+-----+
| TourneyAdmin1 | password123 | name@gmail.com |
| TourneyAdmin2 | password123 | 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

```
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
Player 6	6	1	0
Player 7	6	1	0
Player 1	5	1	0
Player 2	5	1	0
Player 4	4	0	1
Player 5	3	0	1
Player 8	2	0	1
Player 3	1	0	1

8 rows in set (0.00 sec)