DATABASE PROJECT 2

PHASE 1

By – Shreyash Shrivastava (1010397477) AND Sansidh Kommaraju (1001472425)

CREATE TABLE (STATEMENTS)

```
CREATE DATABASE WORLD_CUP

USE WORLD_CUP;

CREATE TABLE TEAM (
   TEAMID CHAR(2) NOT NULL,
   TEAM VARCHAR(20) NOT NULL,
   CONTINENT VARCHAR(10) NOT NULL,
   LEAGUE VARCHAR(10) NOT NULL,
   POPULATION BIGINT(20),
   PRIMARY KEY (TEAMID));

CREATE TABLE STADIUM (
   SID CHAR(3) NOT NULL,
   SNAME VARCHAR(25) NOT NULL,
   SCITY VARCHAR(15) NOT NULL,
   SCAPACITY INT NOT NULL,
   PRIMARY KEY (SID));

CREATE TABLE PLAYER (
   TEAM VARCHAR(15) NOT NULL,
   TEAMID CHAR(2) NOT NULL,
   PlayerID int NOT NULL,
   Position char(2) NOT NULL,
   FIFA_Popular_Name varchar(20) NOT NULL,
   BirthDate char(10) NOT NULL,
   Shirt_Name varchar(15) NOT NULL,
   Club varchar(25),
   Height int NOT NULL,
   Weight int NOT NULL,
   PRIMARY KEY (PlayerID, TEAMID)
   FOREIGN KEY (TEAMID) REFRENCES TEAM(TEAMID)
   );

CREATE TABLE GAME (
   GAMEID CHAR(3) NOT NULL,
   MATCH_TYPE CHAR NOT NULL,
   MATCH_DATE CHAR(9) NOT NULL,
   SID CHAR(3) NOT NULL,
```

```
    TEAMID1 CHAR(2) NOT NULL,
    TEAMID2 CHAR(2) NOT NULL,
    TEAM1SCCORE INT NOT NULL,
    TEAM2SCORE INT NOT NULL,
    PRIMARY KEY (GAMEID));
```

CREATE TABLE GOALS (

```
    GAMEID CHAR(3) NOT NULL,
    TEAMID CHAR(2) NOT NULL,
    PlayerID INT NOT NULL,
    TIME_of_goal INT NOT NULL,
    Penalty BOOLEAN NOT NULL,
    PRIMARY KEY (GAMEID, TIME_of_goal));
```

CREATE TABLE SUBSTITUTIONS (

```
    GAMEID char(3) NOT NULL,
    TEAMID char(2) NOT NULL,
    Substitute_player_ID INT NOT NULL,
    Position char(2) NOT NULL,
    Replace_player_ID INT NOT NULL,
    TIME_of_sub int NOT NULL,
    PRIMARY KEY (GAMEID, TIME_of_sub,Substitute_player_ID));
```

CREATE TABLE CARDS (

```
    GAMEID CHAR(3) NOT NULL,
    TEAMID CHAR(2) NOT NULL,
    PlayerID INT NOT NULL,
    Color_Card VARCHAR(6) NOT NULL,
    Time_of_card INT NOT NULL,
    PRIMARY KEY (GAMEID, Time_of_card,PlayerID));
```

CREATE TABLE OWN_GOALS (

```
    GAMEID CHAR(3) NOT NULL,
    TEAMID CHAR(2) NOT NULL,
    PlayerID INT NOT NULL,
    Time_of_og INT NOT NULL,
    FOR_TEAMID CHAR(2) NOT NULL,
    PRIMARY KEY (GAMEID, Time_of_og));
```

CREATE TABLE STARTING_LINEUP (

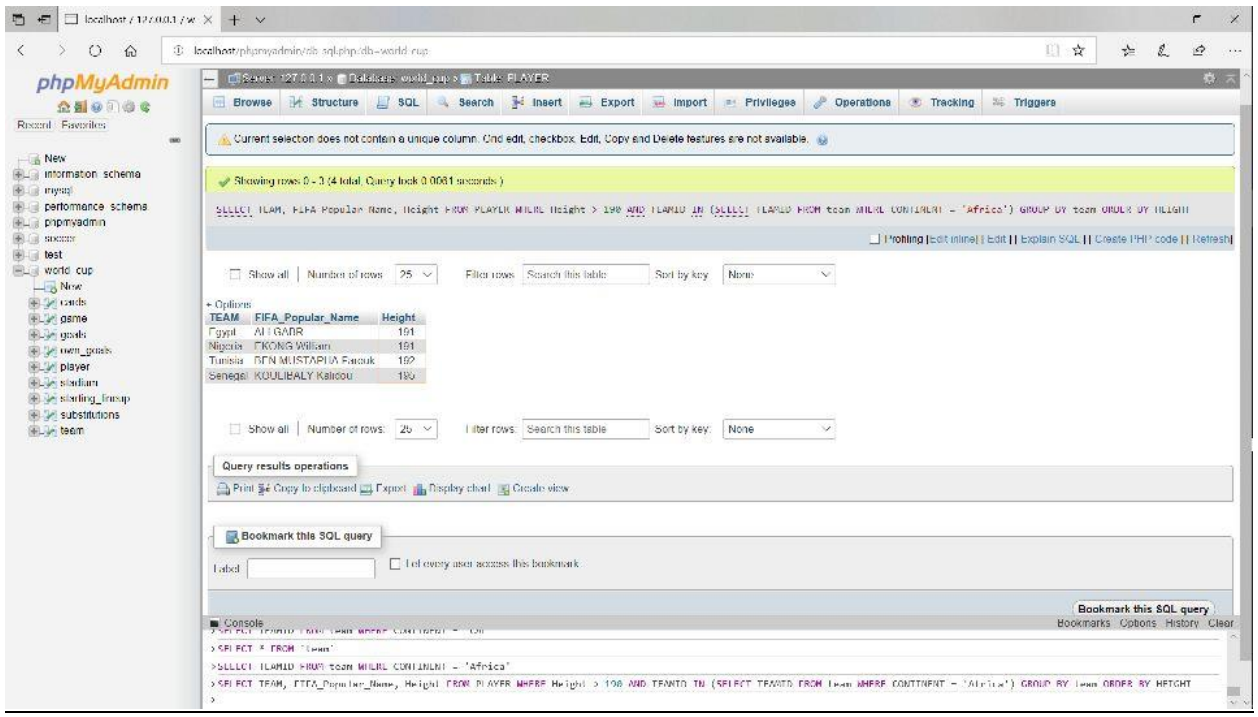
```
    GAMEID CHAR(3) NOT NULL,
    TEAMID CHAR(2) NOT NULL,
    PlayerID INT NOT NULL,
    PRIMARY KEY (GAMEID, PlayerID,TEAMID));
```

LOADING THE DATA (STATEMENTS)

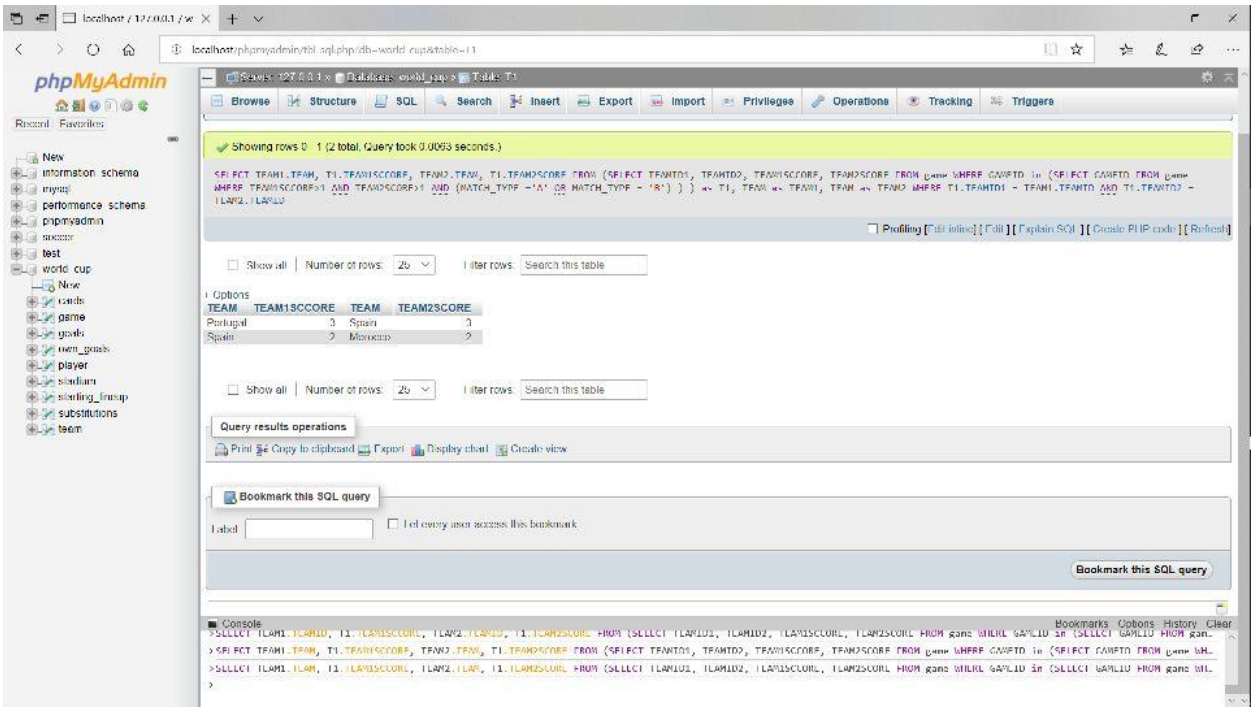
```
LOAD DATA INFILE 'world-cup-starting-lineups-text.txt' INTO TABLE starting_lineup FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

LOAD DATA INFILE 'world-cup-substitutes-text.txt' INTO TABLE substitutions FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

LOAD DATA INFILE 'world-cup-goals-text.txt' INTO TABLE goals FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

LOAD DATA INFILE 'world-cup-matches-text.txt' INTO TABLE game FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

LOAD DATA INFILE 'world-cup-teams-text.txt' INTO TABLE team FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

LOAD DATA INFILE 'world-cup-rosters-text.txt' INTO TABLE PLAYER FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

LOAD DATA INFILE 'world-cup-own-goals-text.txt' INTO TABLE own_goals FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

LOAD DATA INFILE 'world-cup-cards-text.txt' INTO TABLE CARDS FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

LOAD DATA INFILE 'world-cup-stadiums-text.txt' INTO TABLE STADIUM FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';
```

QUERIES

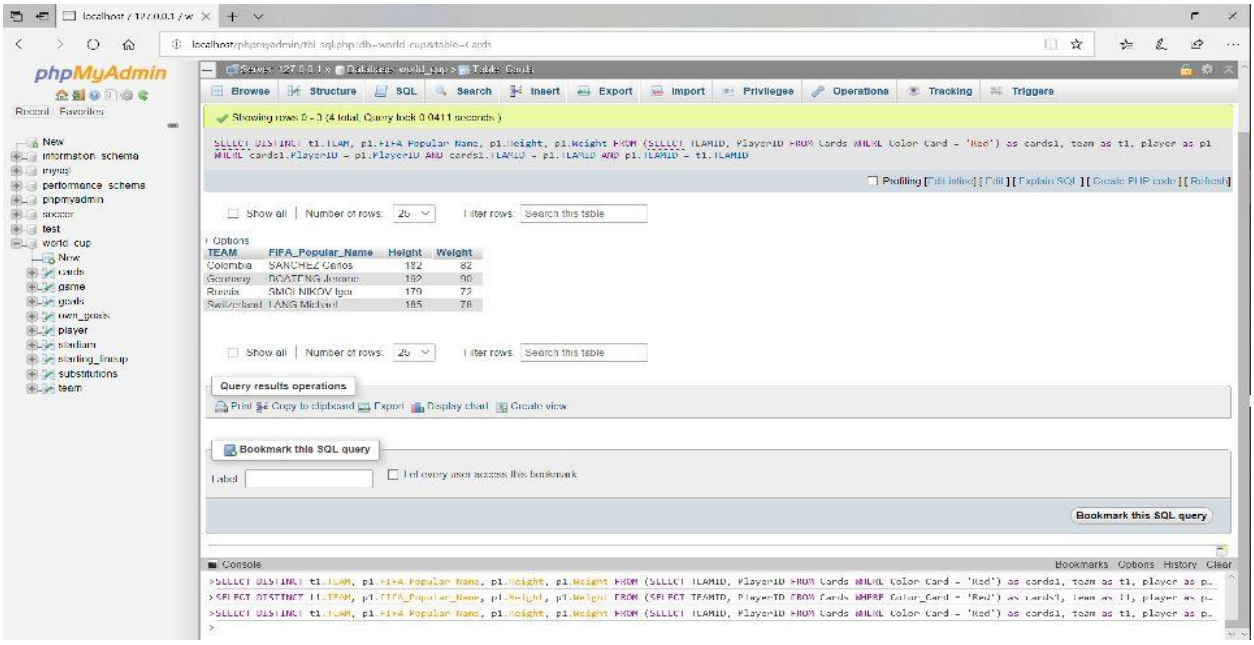
1. SELECT TEAM, FIFA_Popular_Name, Height FROM PLAYER WHERE Height > 190 AND TEAMID IN (SELECT TEAMID FROM team WHERE CONTINENT = 'Africa') GROUP BY team ORDER BY HEIGHT



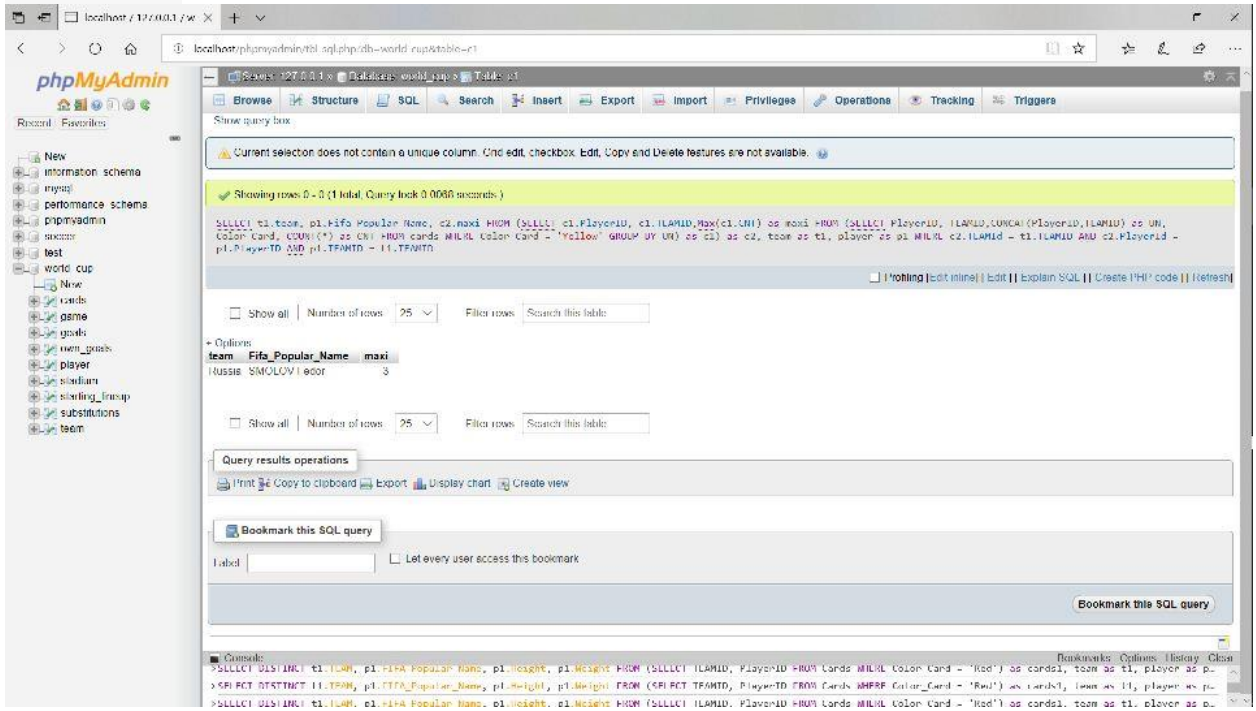
2. SELECT TEAM1.TEAM, T1.TEAM1SCCORE, TEAM2.TEAM, T1.TEAM2SCORE
FROM (SELECT TEAMID1, TEAMID2, TEAM1SCCORE, TEAM2SCORE
FROM game
WHERE GAMEID in
(SELECT GAMEID
FROM game
WHERE TEAM1SCCORE>1 AND TEAM2SCORE>1 AND (MATCH_TYPE ='A' OR MATCH_TYPE = 'B')
)
) as T1, TEAM as TEAM1, TEAM as TEAM2
WHERE T1.TEAMID1 = TEAM1.TEAMID AND T1.TEAMID2 = TEAM2.TEAMID
GROUP BY team T1.MATCH_TYPE



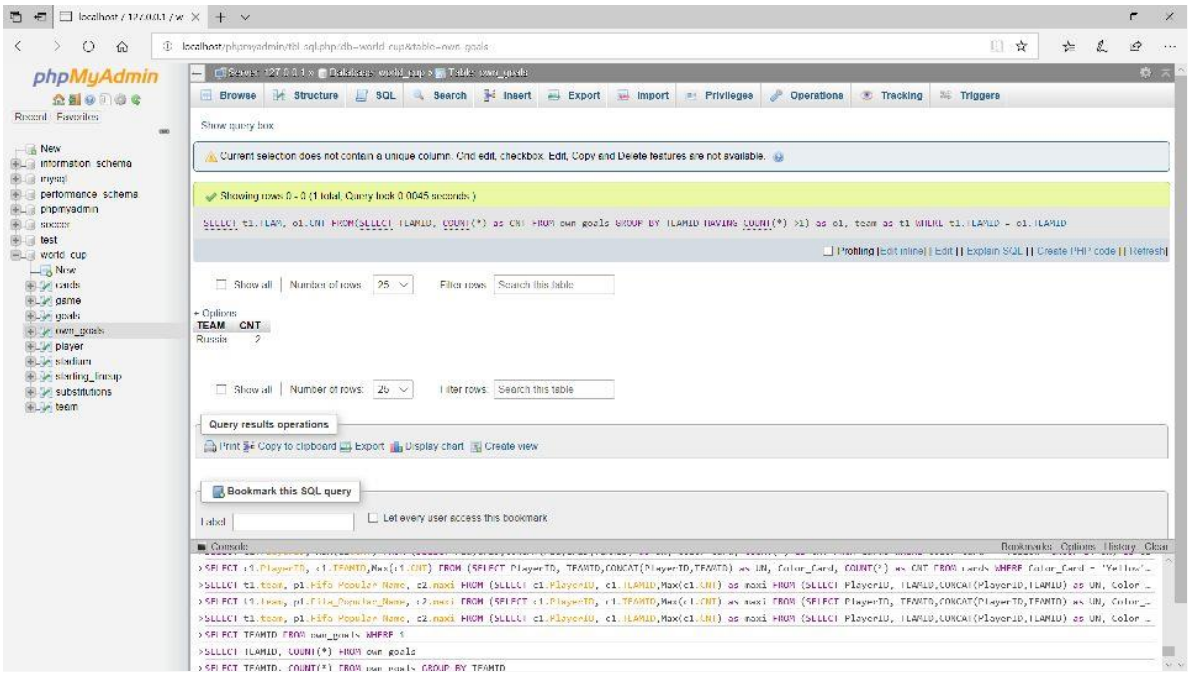
3. SELECT DISTINCT t1.TEAM, p1.FIFA_Popular_Name, p1.Height, p1.Weight
FROM (SELECT TEAMID, PlayerID
FROM Cards
WHERE Color_Card = 'Red') as cards1, team as t1, player as p1
WHERE cards1.PlayerID = p1.PlayerID AND cards1.TEAMID = p1.TEAMID AND p1.TEAMID = t1.TEAMID



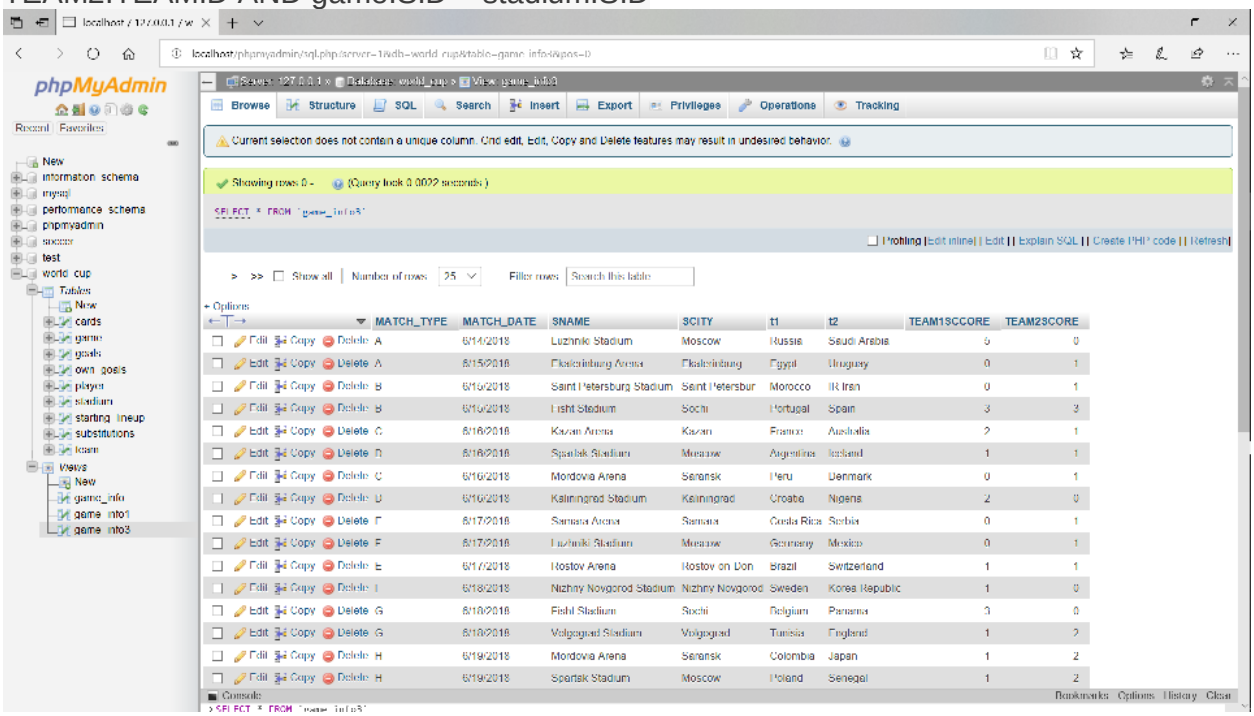
4. SELECT t1.team, p1.Fifa_Popular_Name, c2.maxi
FROM (SELECT c1.PlayerID, c1.TEAMID,Max(c1.CNT) as maxi
FROM
(SELECT PlayerID, TEAMID,CONCAT(PlayerID,TEAMID) as UN, Color_Card,
COUNT(*) as CNT
FROM cards
WHERE Color_Card = 'Yellow'
GROUP BY UN) as c1) as c2, team as t1, player as p1
WHERE c2.TEAMId = t1.TEAMID AND c2.PlayerId = p1.PlayerID AND p1.TEAMID
= t1.TEAMID



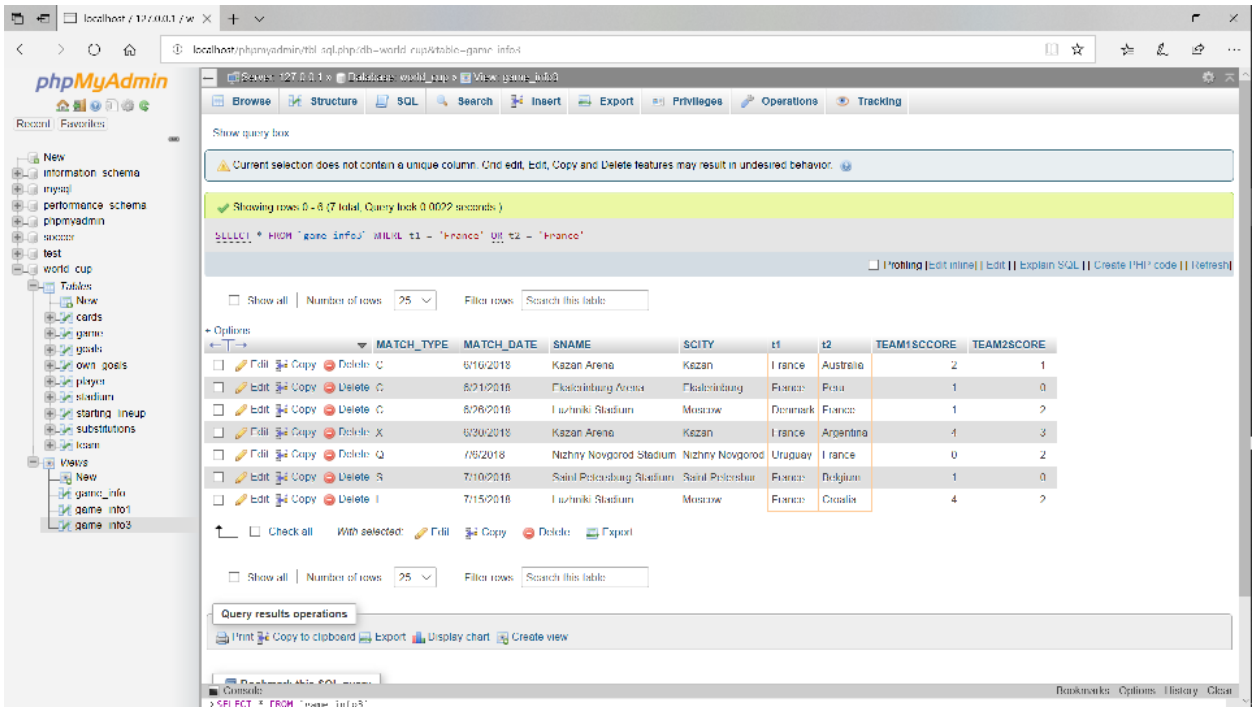
5. SELECT t1.TEAM, o1.CNT
FROM(SELECT TEAMID, COUNT(*) as CNT
FROM own_goals
GROUP BY TEAMID
HAVING COUNT(*) >1) as o1, team as t1
WHERE t1.TEAMID = o1.TEAMID;



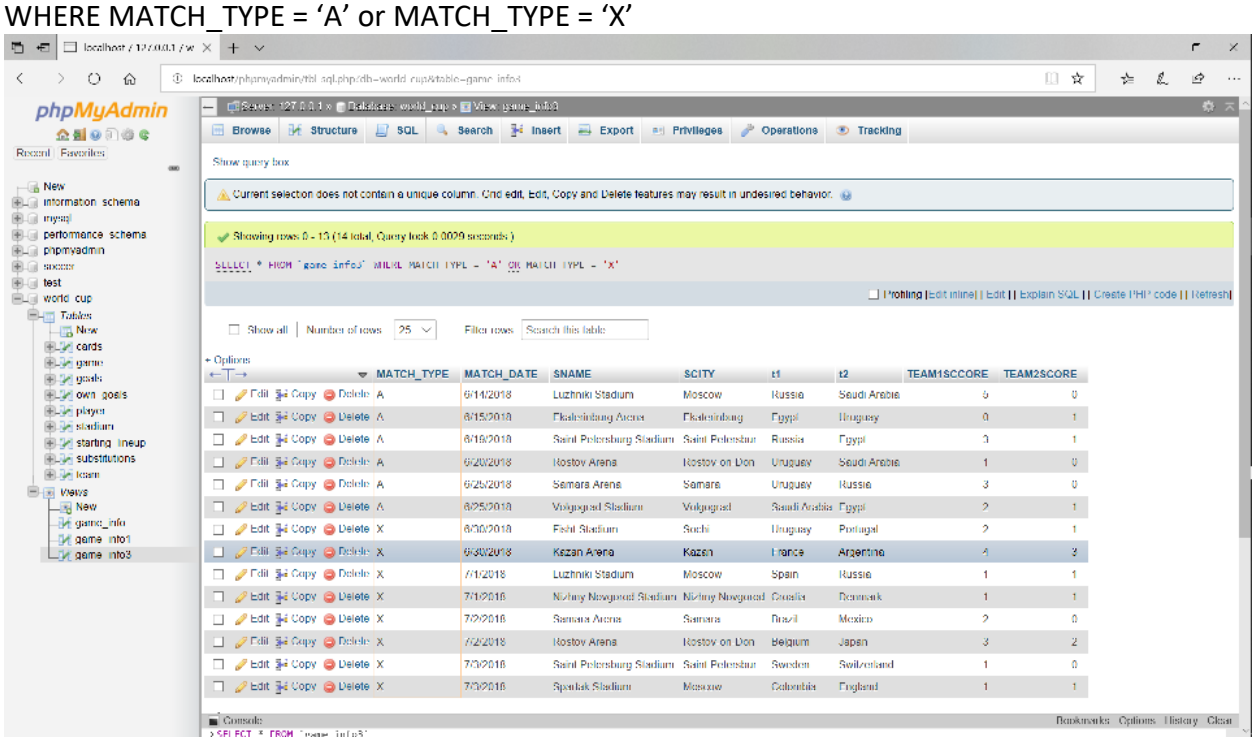
6. CREATE VIEW GAME_INFO AS
   SELECT MATCH_TYPE, MATCH_DATE, SNAME,SCITY,TEAM1.TEAM as t1, TEAM2.TEAM as t2, TEAM1SCCORE, TEAM2SCORE
   FROM GAME, STADIUM, TEAM AS TEAM1, TEAM AS TEAM2
   WHERE GAME.TEAMID1 = TEAM1.TEAMID AND GAME.TEAMID2 = TEAM2.TEAMID AND game.SID = stadium.SID



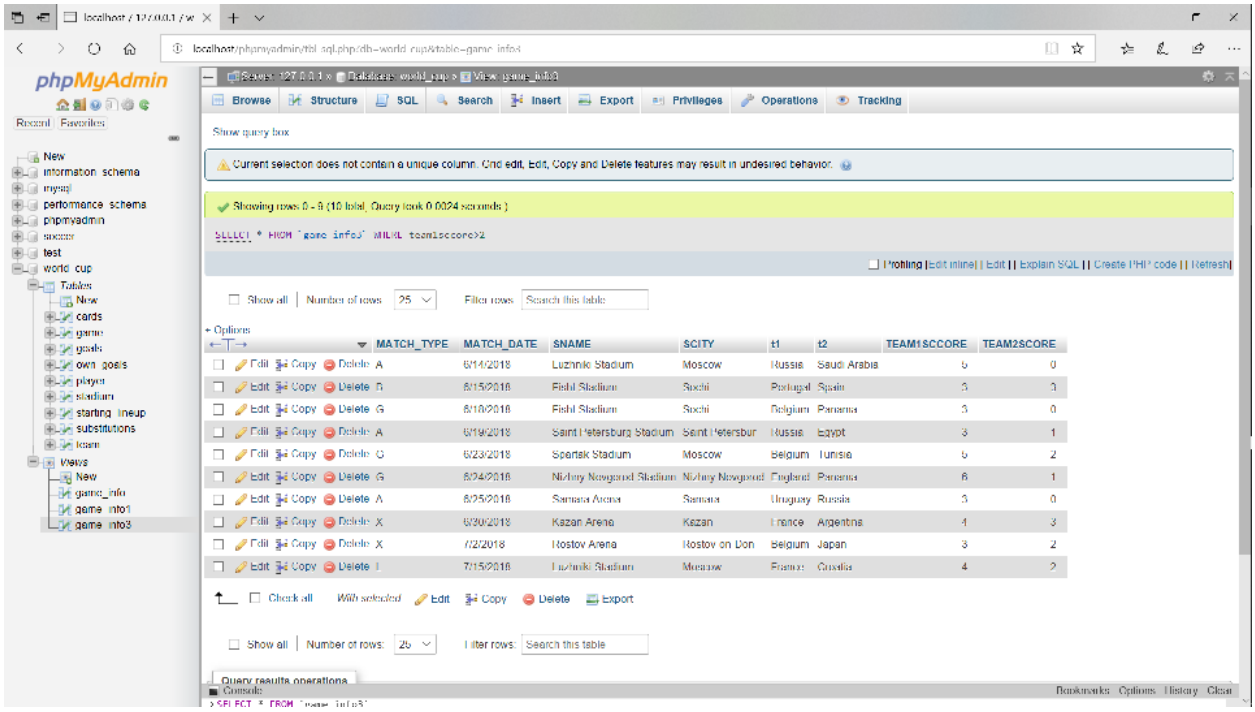
7. The queries for the above view are:
   i. SELECT *
      FROM game_info
      WHERE t1 = ‘France’ or t2 = ’France’



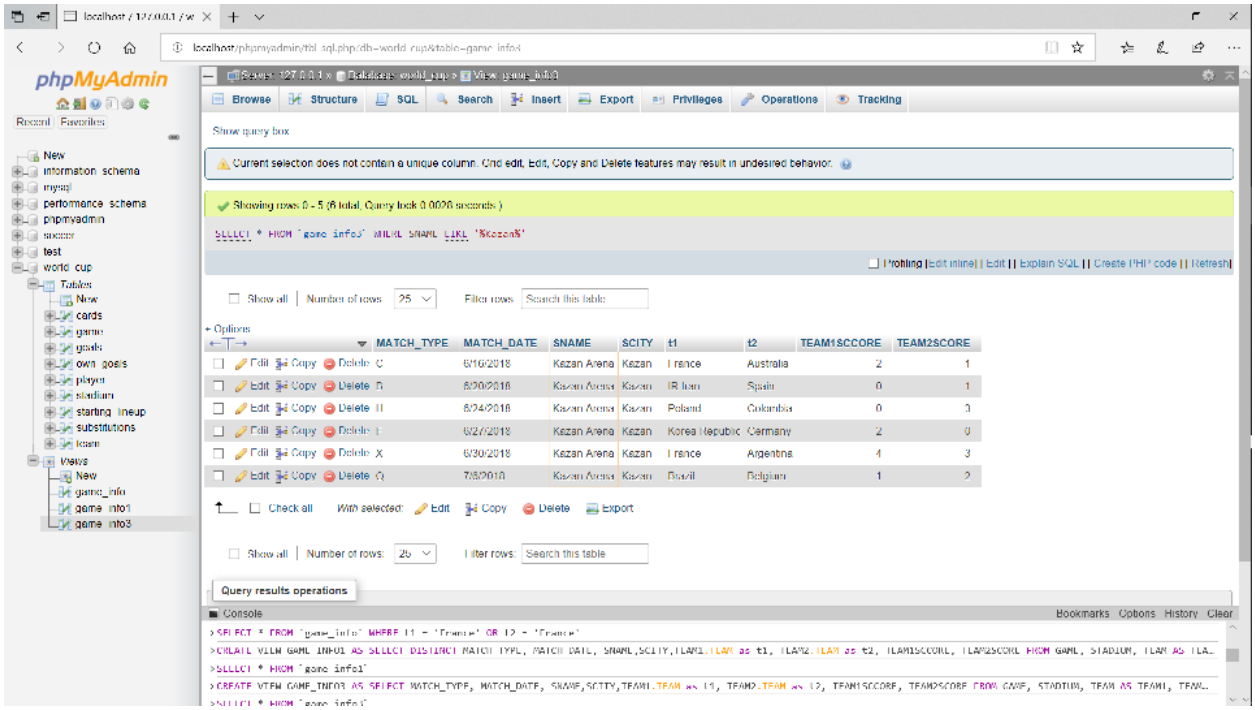
j. SELECT *
FROM game_info
WHERE MATCH_TYPE = ‘A’ or MATCH_TYPE = ‘X’



k. SELECT *
FROM game_info
WHERE TEAM1SCORE >2

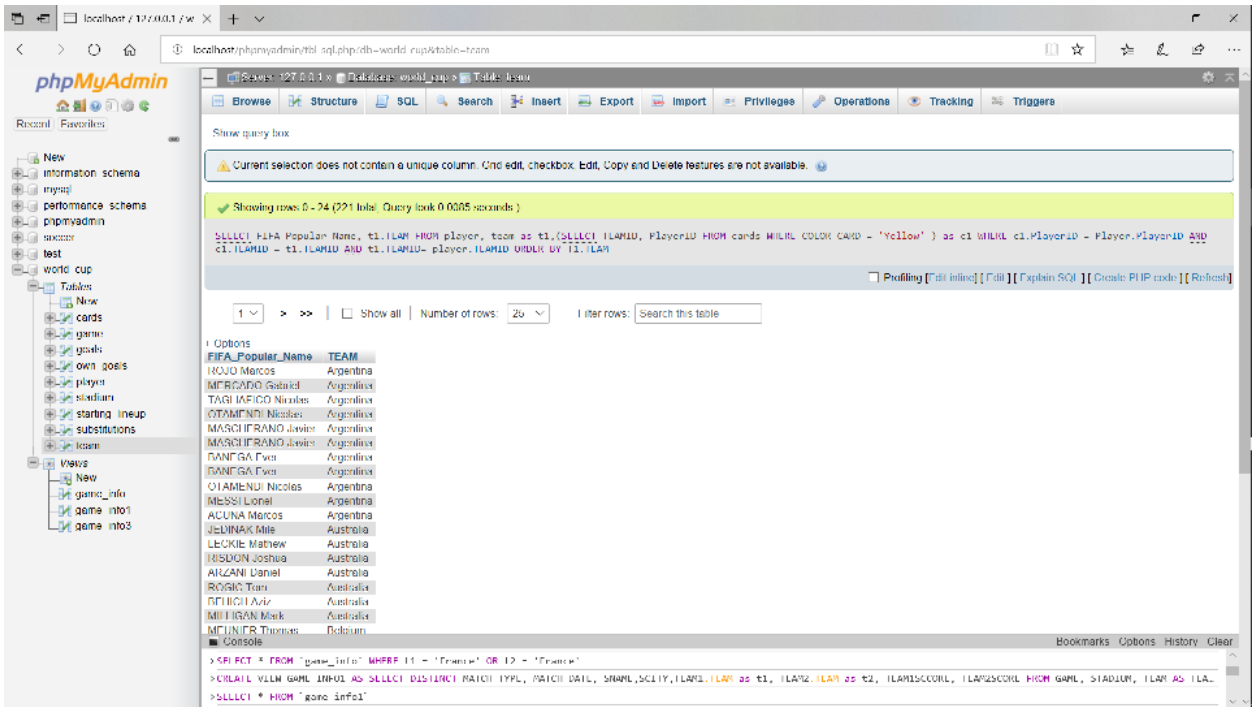


l. SELECT *
FROM game_info
WHERE SNAME like ‘%kazan%’

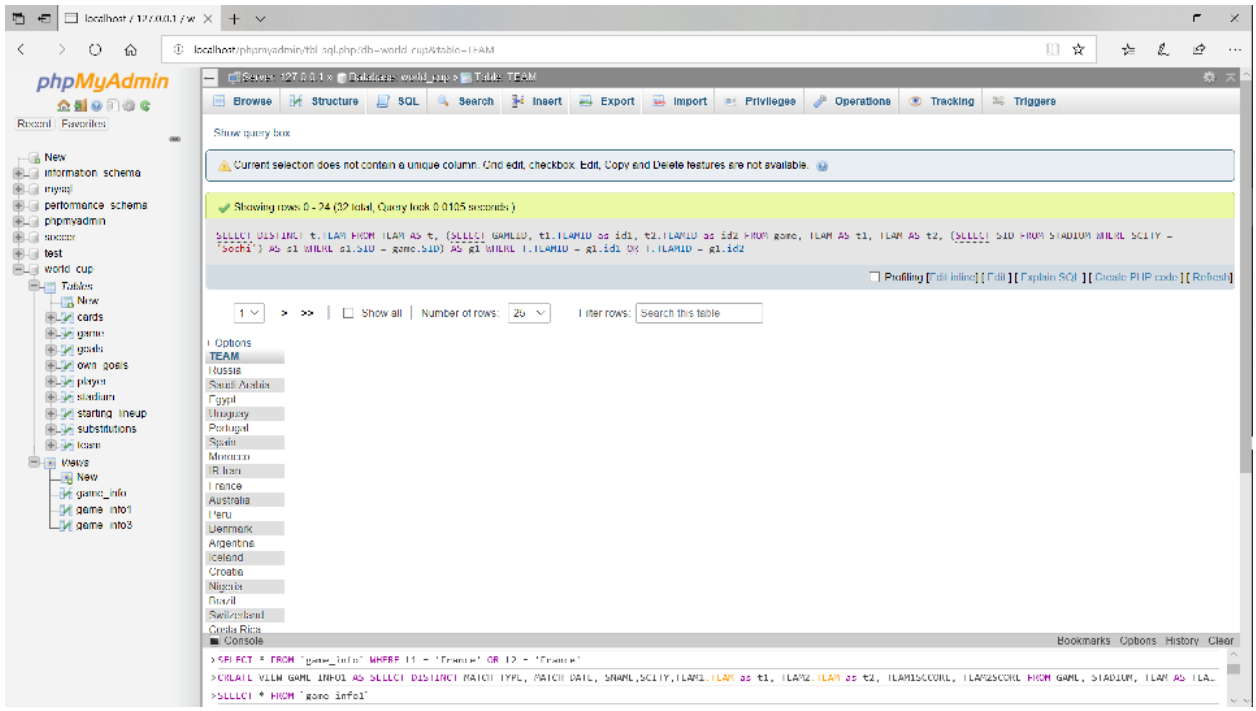


8.

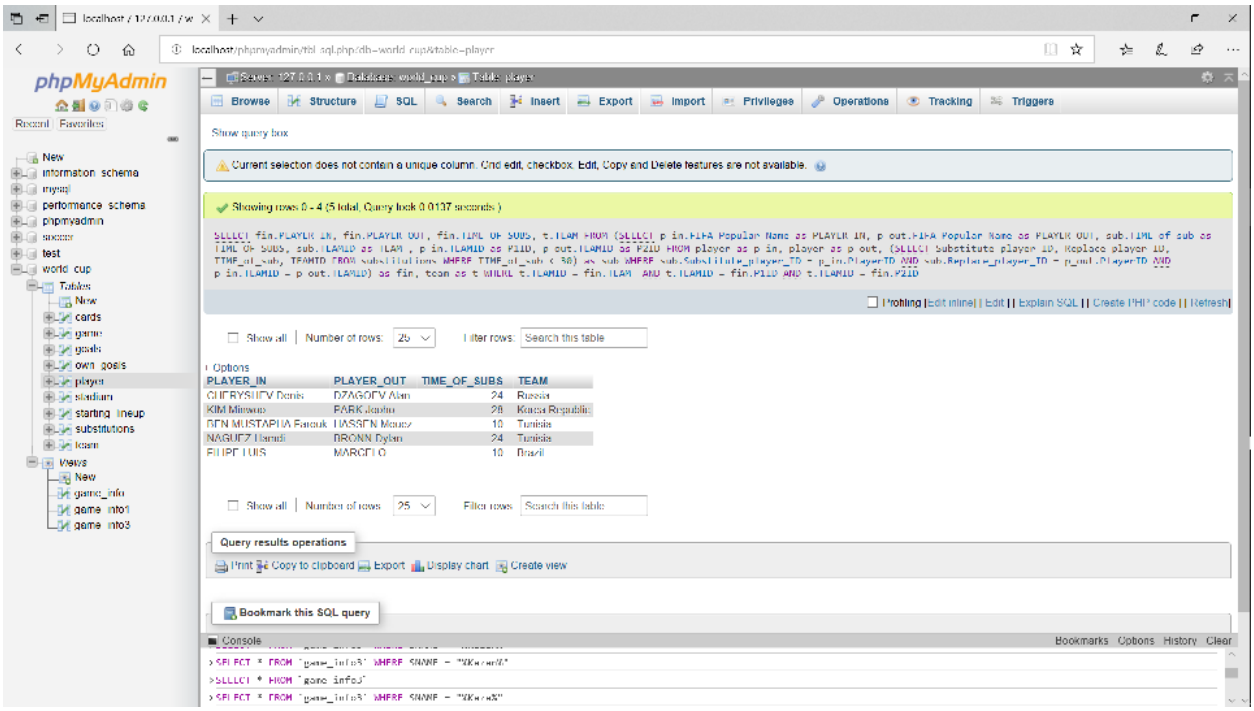
i. SELECT FIFA_Popular_Name, t1.TEAM
FROM player, team as t1,(SELECT TEAMID, PlayerID
FROM cards
WHERE COLOR_CARD = 'Yellow') as c1
WHERE c1.PlayerID = Player.PlayerID AND c1.TEAMID = t1.TEAMID AND t1.TEAMID= player.TEAMID
ORDER BY t1.TEAM



ii. SELECT DISTINCT t.TEAM
FROM TEAM AS t,
(SELECT GAMEID, t1.TEAMID as id1, t2.TEAMID as id2
FROM game, TEAM AS t1, TEAM AS t2, (
SELECT SID FROM
STADIUM WHERE
SCITY = 'Sochi') AS s1
WHERE s1.SID = game.SID) AS g1
WHERE T.TEAMID = g1.id1 OR T.TEAMID = g1.id2



iii. SELECT fin.PLAYER_IN, fin.PLAYER_OUT, fin.TIME_OF_SUBS, t.TEAM
FROM
(SELECT p_in.FIFA_Popular_Name as PLAYER_IN, p_out.FIFA_Popular_Name as PLAYER_OUT, sub.TIME_of_sub as TIME_OF_SUBS, sub.TEAMID as TEAM_, p_in.TEAMID as P1ID, p_out.TEAMID as P2ID
FROM player as p_in, player as p_out,
(SELECT Substitute_player_ID, Replace_player_ID, TIME_of_sub, TEAMID
FROM substitutions
TIME_of_sub < 30) as sub
WHERE sub.Substitute_player_ID = p_in.PlayerID AND sub.Replace_player_ID = p_out.PlayerID AND p_in.TEAMID = p_out.TEAMID) as fin, team as t
WHERE t.TEAMID = fin.TEAM_ AND t.TEAMID = fin.P1ID AND t.TEAMID = fin.P2ID


phpMyAdmin
Recent Favorites
New
information_schema
mysql
performance_schema
phpmyadmin
test
world_cup
Tables
New
cards
game
goals
own_goals
player
stadium
starting_lineup
substitutions
team
Views
New
game_info
game_info1
game_info3
Browse
Structure
SQL
Search
Insert
Export
Import
Privileges
Operations
Tracking
Triggers
Show query box
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Showing rows 0 - 4 (5 total, Query took 0.0137 seconds.)
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table
Options
PLAYER_IN PLAYER_OUT TIME_OF_SUBS TEAM
CHERYSHEV Denis DZAGOEV Alan 24 Russia
KIM Minwoo PARK Joohoo 28 Korea Republic
BEN MUSTAPHA Farouk HASSEN Mouez 10 Tunisia
NAGUEZ Hamdi BRONN Dylan 24 Tunisia
FILIPE LUIS MARCELO 10 Brazil
Show all | Number of rows: 25 Filter rows: Search this table
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