

DATABASE PROJECT 2

PHASE 1

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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) REFERENCES 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';

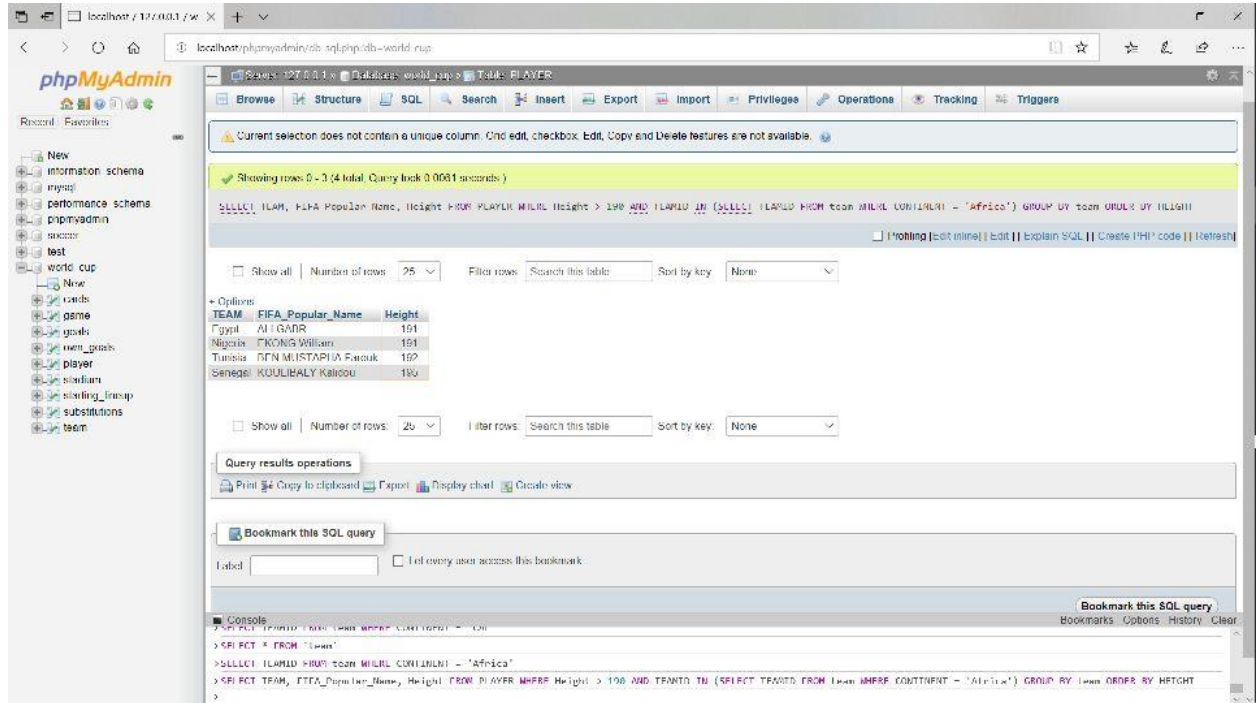
LOAD DATA INFILE 'world-cup-own-goals-text.txt' INTO TABLE own_goals FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

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

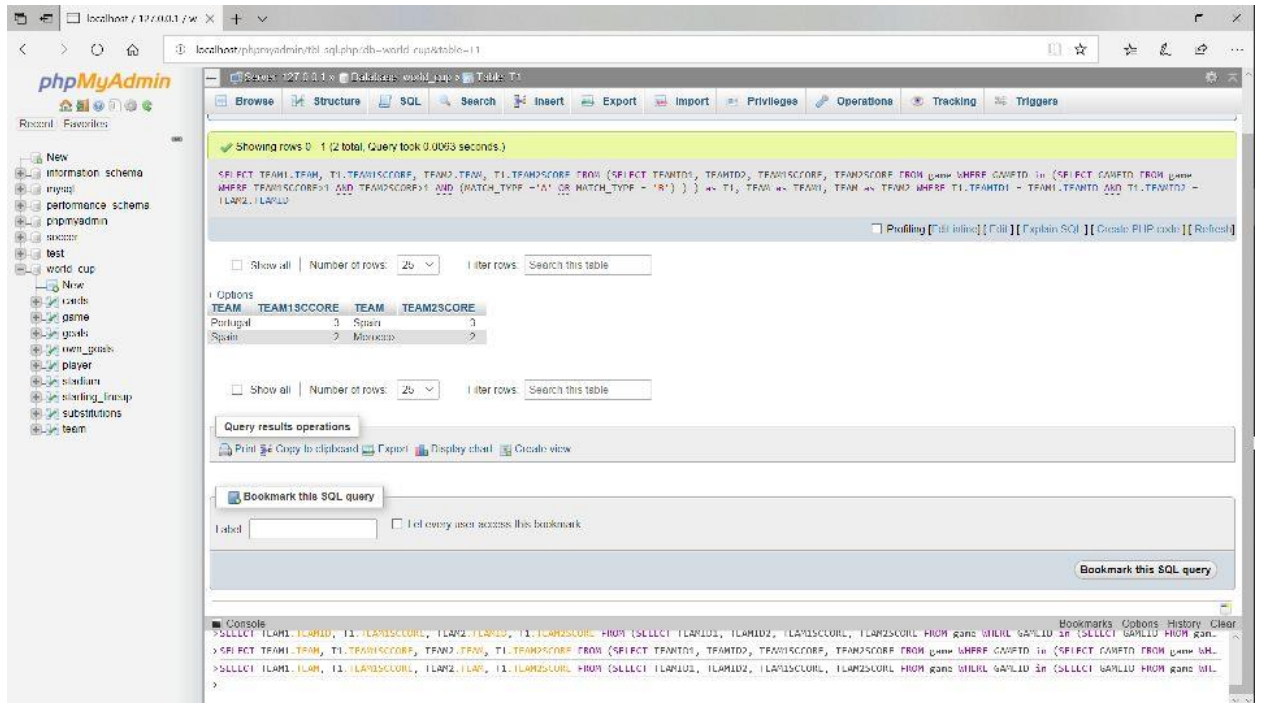
LOAD DATA INFILE 'world-cup-stadiums-text.txt' INTO TABLE STADIUM FIELDS TERMINATED BY ',' LINES TERMINATED BY '\n';

QUERIES

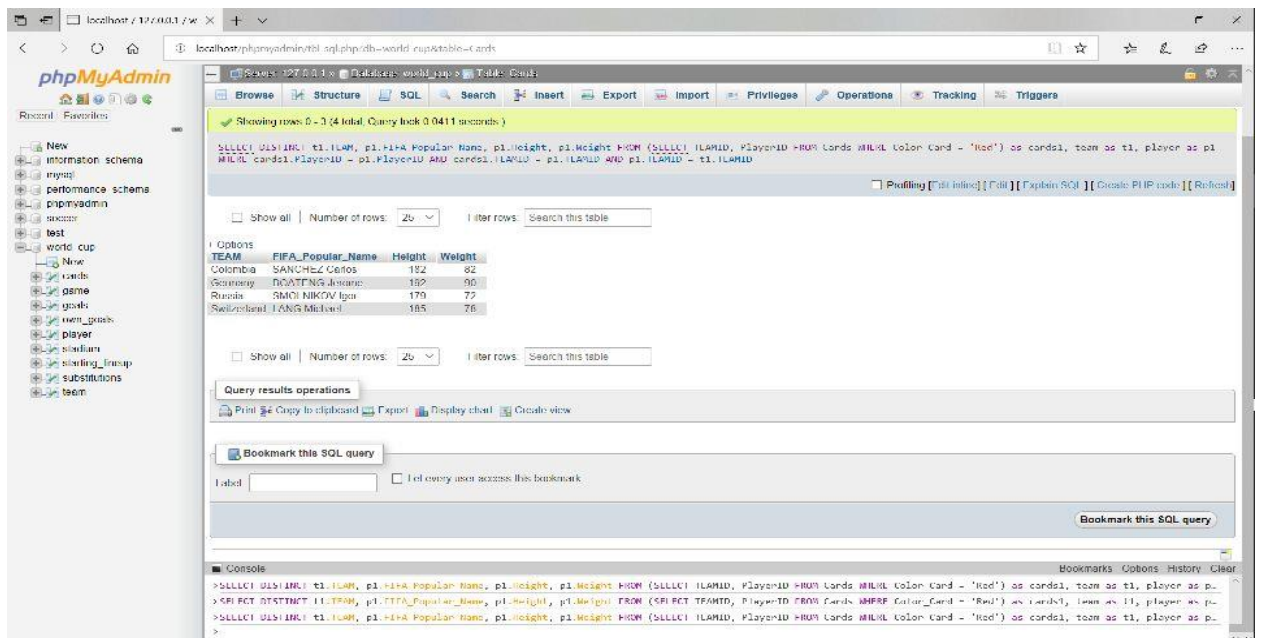
1. SELECT TEAM, FIFA_Popular_Name, Height FROM PLAYER WHERE Height > 190 AND TEAMID IN (SELECT TEAMID FROM team WHERE CONTINENT = 'Africa') GROUP BY team ORDER BY HEIGHT



2. SELECT TEAM1.TEAM, T1.TEAM1SCORE, TEAM2.TEAM, T1.TEAM2SCORE
FROM (SELECT TEAMID1, TEAMID2, TEAM1SCORE, TEAM2SCORE
FROM game
WHERE GAMEID in
(SELECT GAMEID
FROM game
WHERE TEAM1SCORE>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



- 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

The screenshot shows the phpMyAdmin interface with a SQL query executed. The query is as follows:

```
SELECT t1.team, p1.Fifa_Popular_Name, c2.maxi FROM (SELECT c1.PlayerID, c1.TEAMID, Max(c1.UN) 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
```

The results table shows the following data:

team	Fifa_Popular_Name	maxi
RUSSE	SMOLOV	3

The interface also includes a sidebar with database navigation, a top menu with options like Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers. The bottom section shows query results operations like Print, Copy to clipboard, Export, Display chart, and Create view. There is also a bookmark section for the SQL query.

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;`

The screenshot shows the phpMyAdmin web interface. The left sidebar displays a database structure with a tree view. The main panel shows a SQL query being executed. The query is:

```
SELECT t1.LAN, o1.CNT FROM(SELECT(LANID, COUNT(*) as CNT) FROM own_goals GROUP BY LANID HAVING COUNT(*) >1) as o1, team as t1 WHERE t1.LANID = o1.LANID
```

The execution result shows 25 rows. The table structure is:

TEAM	CNT
...	...

The bottom panel shows the SQL query history and a list of queries.

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localhost/phpmyadmin/tbl_sql.php?db=world_rup&table=game_info

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Show query box

Current selection does not contain a unique column. Cnd edit, Edit, Copy and Delete features may result in undesired behavior.

Showing rows 0 - 6 (7 total, Query took 0.0022 seconds)

```
SELECT * FROM `game_info` WHERE t1 = 'france' OR t2 = 'france'
```

Options

Number of rows: 25

Filter rows: Search this table

	MATCH_TYPE	MATCH_DATE	SNAME	SCITY	t1	t2	TEAM1SCORE	TEAM2SCORE
<input type="checkbox"/>	Edit Copy Delete C	6/16/2018	Kazan Arena	Kazan	France	Australia	2	1
<input type="checkbox"/>	Edit Copy Delete C	8/21/2018	Euroleirung Arena	Euroleirung	France	Poland	1	0
<input type="checkbox"/>	Edit Copy Delete C	8/26/2018	Luzhnik Stadium	Moscow	Denmark	France	1	2
<input type="checkbox"/>	Edit Copy Delete X	6/30/2018	Kazan Arena	Kazan	France	Argentina	4	3
<input type="checkbox"/>	Edit Copy Delete C	7/8/2018	Nizhny Novgorod Stadium	Nizhny Novgorod	Uruguay	France	0	2
<input type="checkbox"/>	Edit Copy Delete X	7/10/2018	Saint Petersburg Stadium	Saint Petersburg	France	Belgium	1	0
<input type="checkbox"/>	Edit Copy Delete X	7/15/2018	Luzhnik Stadium	Moscow	France	Croatia	4	2

Check all With selected: Edit Copy Delete Export

Show all Number of rows: 25 Filter rows: Search this table

Query results operations

Print Copy to clipboard Export Display chart Create view

Console

```
> SELECT * FROM `game_info`
```

Bookmarks Options History Clear

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

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localhost/phpmyadmin/tbl_sql.php?db=world_rup&table=game_info

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Show query box

Current selection does not contain a unique column. Cnd edit, Edit, Copy and Delete features may result in undesired behavior.

Showing rows 0 - 13 (14 total, Query took 0.0029 seconds)

```
SELECT * FROM `game_info` WHERE MATCH_TYPE = 'A' OR MATCH_TYPE = 'X'
```

Options

Number of rows: 25

Filter rows: Search this table

	MATCH_TYPE	MATCH_DATE	SNAME	SCITY	t1	t2	TEAM1SCORE	TEAM2SCORE
<input type="checkbox"/>	Edit Copy Delete A	6/14/2018	Luzhnik Stadium	Moscow	Russia	Saudi Arabia	0	0
<input type="checkbox"/>	Edit Copy Delete A	6/15/2018	Euroleirung Arena	Euroleirung	Egypt	Uruguay	0	1
<input type="checkbox"/>	Edit Copy Delete A	6/16/2018	Saint Petersburg Stadium	Saint Petersburg	Russia	Egypt	3	1
<input type="checkbox"/>	Edit Copy Delete A	6/20/2018	Rostov Arena	Rostov on Don	Uruguay	Saudi Arabia	1	0
<input type="checkbox"/>	Edit Copy Delete A	6/26/2018	Somara Arena	Somara	Uruguay	Russia	3	0
<input type="checkbox"/>	Edit Copy Delete A	6/25/2018	Volgograd Stadium	Volgograd	Saudi Arabia	Egypt	2	1
<input type="checkbox"/>	Edit Copy Delete X	6/30/2018	Fisht Stadium	Sochi	Uruguay	Portugal	2	1
<input type="checkbox"/>	Edit Copy Delete X	6/30/2018	Kazan Arena	Kazan	France	Argentina	4	3
<input type="checkbox"/>	Edit Copy Delete X	7/1/2018	Luzhnik Stadium	Moscow	Spain	Russia	1	1
<input type="checkbox"/>	Edit Copy Delete X	7/1/2018	Nizhny Novgorod Stadium	Nizhny Novgorod	Croatia	Denmark	1	1
<input type="checkbox"/>	Edit Copy Delete X	7/2/2018	Somara Arena	Somara	Brazil	Mexico	2	0
<input type="checkbox"/>	Edit Copy Delete X	7/2/2018	Rostov Arena	Rostov on Don	Belgium	Japan	3	2
<input type="checkbox"/>	Edit Copy Delete X	7/3/2018	Saint Petersburg Stadium	Saint Petersburg	Sweden	Switzerland	1	0
<input type="checkbox"/>	Edit Copy Delete X	7/3/2018	Spartak Stadium	Moscow	Colombia	England	1	1

Console

```
> SELECT * FROM `game_info`
```

Bookmarks Options History Clear

k. SELECT *
FROM game_info
WHERE TEAM1SCORE >2

The screenshot shows the phpMyAdmin interface with the 'game_info' table selected. The SQL query entered is: `SELECT * FROM `game_info` WHERE team1score>2`. The results show 10 rows where the team1score is greater than 2.

MATCH_TYPE	MATCH_DATE	SNAME	SCITY	t1	t2	TEAM1SCORE	TEAM2SCORE
A	6/14/2018	Luzhnik Stadium	Moscow	Russia	Saudi Arabia	5	0
A	6/15/2018	Field Stadium	Sochi	Portugal	Spain	3	3
A	6/16/2018	Field Stadium	Sochi	Belgium	Paraguay	3	0
A	6/19/2018	Saint Petersburg Stadium	Saint Petersburg	Russia	Egypt	3	1
G	6/23/2018	Spensak Stadium	Moscow	Belgium	Tunisia	5	2
G	6/24/2018	Nizhny Novgorod Stadium	Nizhny Novgorod	England	Peru	6	1
A	6/25/2018	Samara Arena	Samara	Uruguay	Russia	3	0
X	6/30/2018	Kazan Arena	Kazan	France	Argentina	4	3
X	7/2/2018	Rostov Arena	Rostov on Don	Belgium	Japan	3	2
I	7/15/2018	Luzhnik Stadium	Moscow	France	Guatemala	4	2

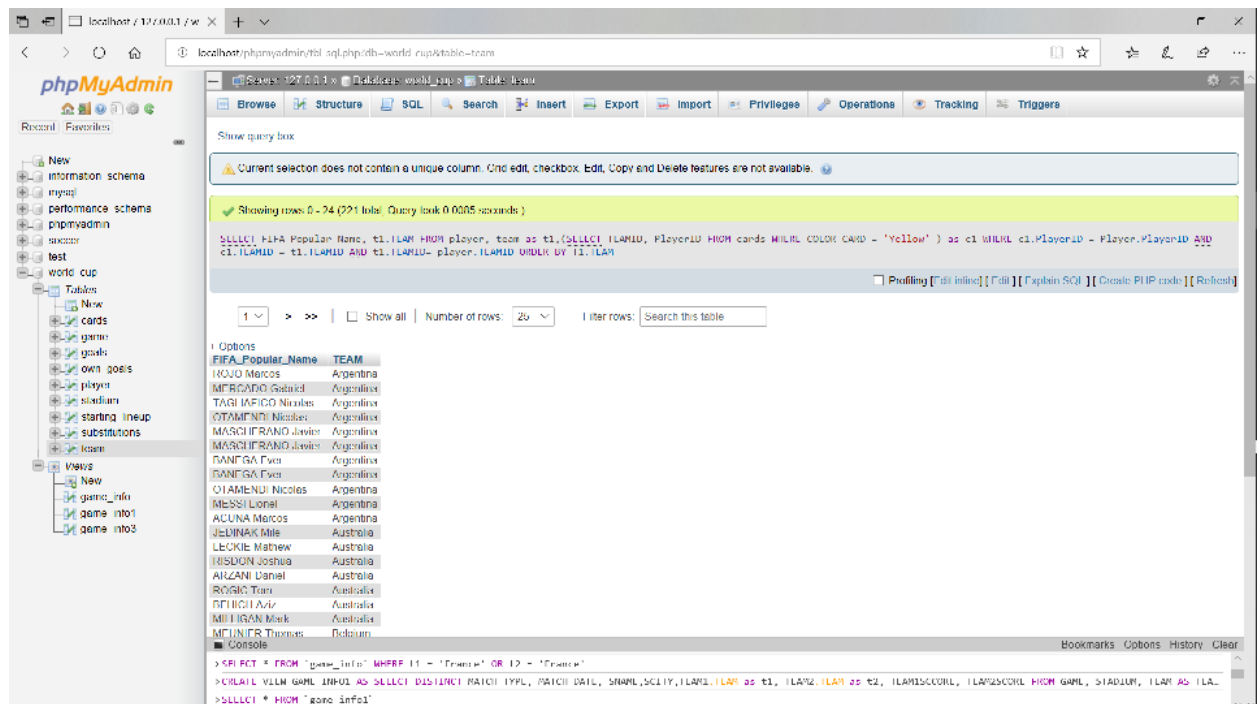
l. SELECT *
FROM game_info
WHERE SNAME like '%kazan%'

The screenshot shows the phpMyAdmin interface with the 'game_info' table selected. The SQL query entered is: `SELECT * FROM `game_info` WHERE SNAME LIKE '%Kazan%'`. The results show 6 rows where the stadium name contains 'Kazan'.

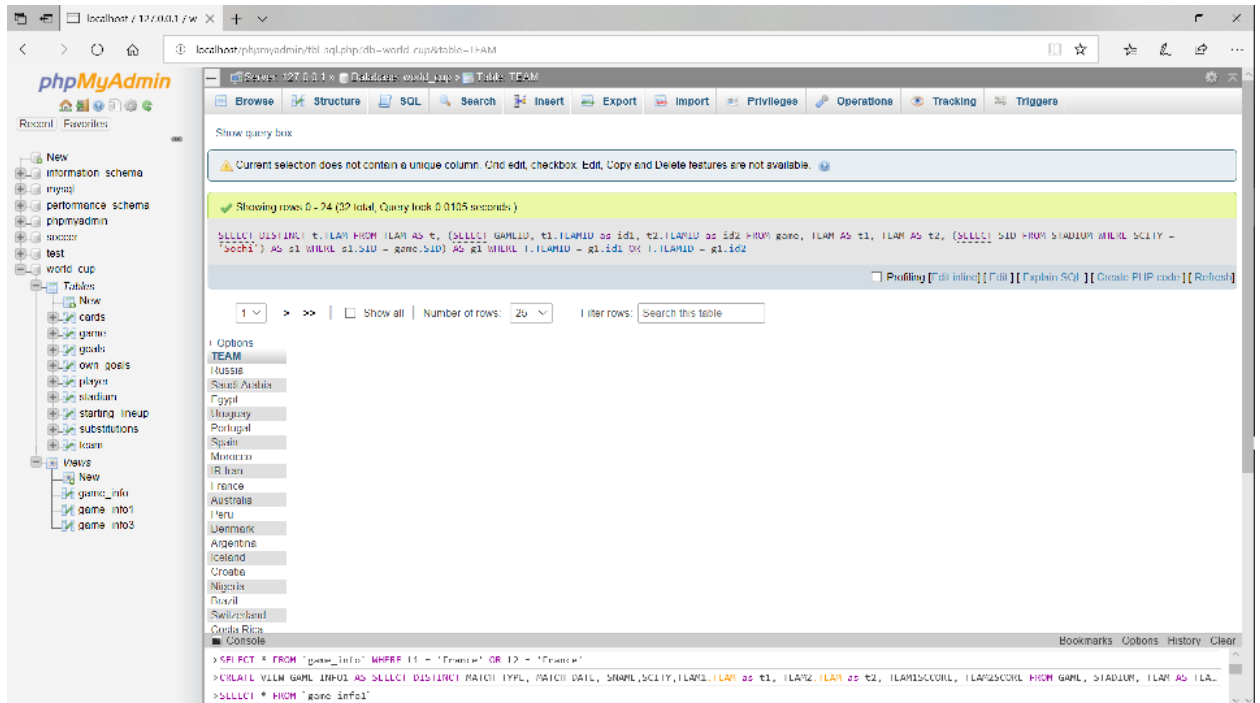
MATCH_TYPE	MATCH_DATE	SNAME	SCITY	t1	t2	TEAM1SCORE	TEAM2SCORE
C	6/16/2018	Kazan Arena	Kazan	France	Australia	2	1
A	6/20/2018	Kazan Arena	Kazan	Iran	Spain	0	1
A	6/24/2018	Kazan Arena	Kazan	Poland	Colombia	0	3
I	6/26/2018	Kazan Arena	Kazan	Korea Republic	Germany	2	0
X	6/30/2018	Kazan Arena	Kazan	France	Argentina	4	3
A	7/5/2018	Kazan Arena	Kazan	Brazil	Belgium	1	2

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

```

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localhost/phpmyadmin/tbl_sql.php/db=world_rup/table=player

phpMyAdmin

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SQL

Current selection does not contain a unique column. Ctrl+edit, checkbox, Edit, Copy and Delete features are not available.

Showing rows: 0 - 4 (5 total, Query took 0.0137 seconds)

```
SELECT fin.PLAYER_IN, fin.PLAYER_OUT, fin.TIME_OF_SUBS, t.ILAN FROM (SELECT p.in.FIFA Popular Name as PLAYER_IN, p.out.FIFA Popular Name as PLAYER_OUT, sub.ILAN of sub as TIME_OF_SUBS, sub.ILANID as ILAN, p.in.ILANID as F1ID, p.out.ILANID as F2ID FROM player as p in, player as p out, (SELECT Substitute player ID, Replace player ID, TIME_of_subs, TEAMID FROM substitution) ASF ASF TIME_of_subs < 30) as sub ASF ASF sub.Substitute_player_ID = p_in.Player_ID AND sub.Replace_player_ID = p_out.Player_ID AND p.in.ILANID = p.out.ILANID) as fin, team as t WHERE t.ILANID = fin.ILAN AND t.ILANID = fin.F1ID AND t.ILANID = fin.F2ID
```

☐ Show all | Number of rows: 25 | Filter rows: Search this table

PLAYER_IN	PLAYER_OUT	TIME_OF_SUBS	TEAM
CHIRYSIITV Denis	DZAGOFFV Alan	24	Russia
KIM Minwoo	PARK Jaeha	28	Korea Republic
RFN MUSTAPHA Farouk	UASSFN Mouez	10	Tunisia
MARGUT7 Ilanad	BROGNN Dylan	24	Tunisia
FILIPF IUS	MARGO O	10	Tunisi

☐ Show all | Number of rows: 25 | Filter rows: Search this table

Query results operations

Console

```
> SELECT * FROM 'game_info5' WHERE NAME = "DZAGOFFV"
> SELECT * FROM 'game_info5'
> SELECT * FROM 'game_info5' WHERE NAME = "DZAGOFFV"
```