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DATABASE 20 COURSEWORK
FIFA WORLD CUP 2010

- Data Dictionnary :

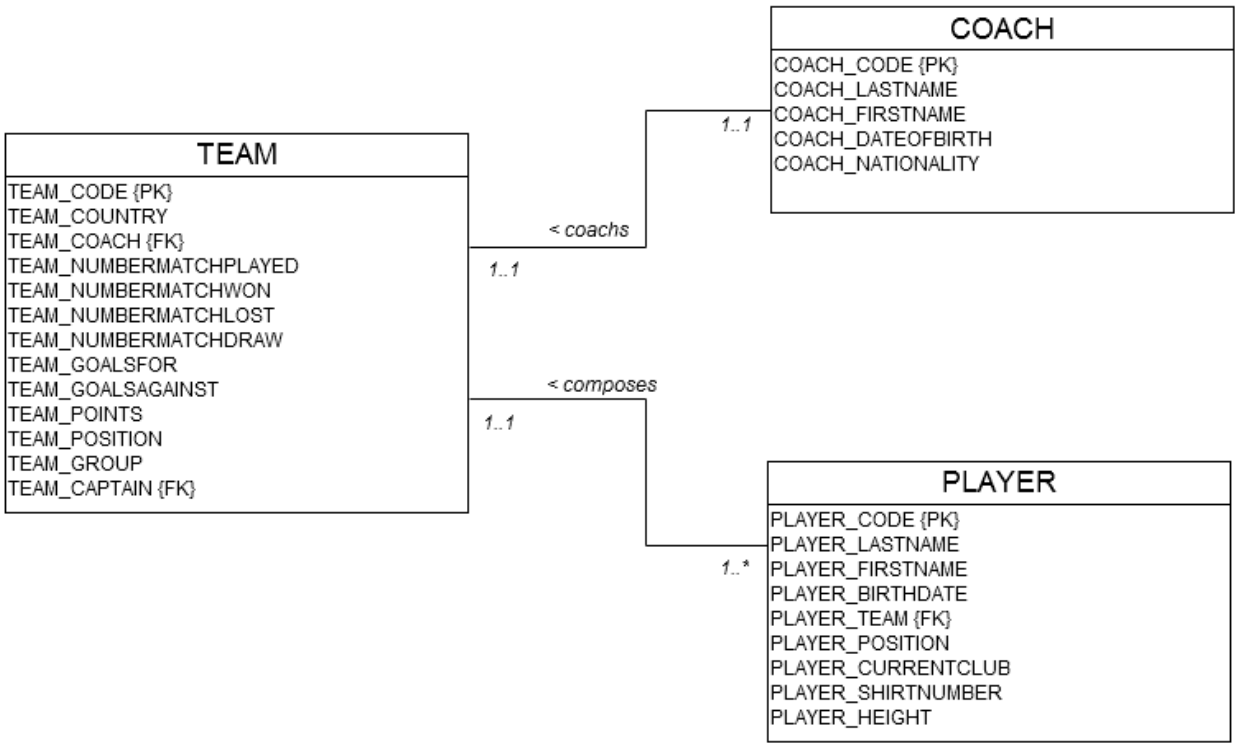
Table Name	Attribute Name	Contents	Data Type	Format	Range	Required	PK or FK	FK Ref Table
TEAM	TEAM_CODE	Team Code	NUMERIC(3)	###	001-999	Y	PK	
	TEAM_COUNTRY	Country	VARCHAR(25)	XXXXXXXX	NA	Y		
	TEAM_COACH	Coach Code	NUMERIC(3)	###	001-999	Y	FK	COACH
	TEAM_NUMBERMATCHPLAYED	Number of match played	NUMERIC(1)	#	1-9	Y		
	TEAM_NUMBERMATCHWON	Number of match won	NUMERIC(1)	#	1-9	Y		
	TEAM_NUMBERMATCHLOST	Number of match lost	NUMERIC(1)	#	1-9	Y		
	TEAM_NUMBERMATCHDRAW	Number of match draw	NUMERIC(1)	#	1-9	Y		
	TEAM_GOALSFOR	Number of goals for	NUMERIC(2)	##	01-99	Y		
	TEAM_GOALSAGAINST	Number of goals against	NUMERIC(2)	##	01-99	Y		
	TEAM_POINTS	Number of points	NUMERIC(2)	##	01-99	Y		
	TEAM_POSITION	Position	NUMERIC(3)	###	001-999	Y		
	TEAM_GROUP	Group Letter	CHAR(1)	X	A-H	Y		
	TEAM_CAPTAIN	Player Code	NUMERIC(4)	####	0001-9999	Y	FK	PLAYER
PLAYER	PLAYER_CODE	Player Code	NUMERIC(4)	####	0001-9999	Y	PK	
	PLAYER_LASTNAME	Last Name	VARCHAR(40)	XXXXXXXX	NA	Y		
	PLAYER_FIRSTNAME	First Name	VARCHAR(40)	XXXXXXXX	NA	Y		
	PLAYER_BIRTHDATE	Date of Birth	DATE	DD-MON-YYYY	NA	Y		
	PLAYER_TEAM	Team Code	NUMERIC(3)	###	001-999	Y	FK	TEAM
	PLAYER_POSITION	Position	VARCHAR(25)	XXXXXXXX	NA	Y		
	PLAYER_CURRENTCLUB	Current Club	VARCHAR(25)	XXXXXXXX	NA	Y		
	PLAYER_SHIRTNUMBER	Number of shirt	NUMERIC(2)	##	01-99	Y		
	PLAYER_HEIGHT	Height	NUMERIC(3)	###	001-999	Y		
STADIUM	STADIUM_CODE	Stadium Code	NUMERIC(2)	##	01-99	Y	PK	
	STADIUM_NAME	Name	VARCHAR(25)	XXXXXXXX	NA	Y		
	STADIUM_LOCATION	Location	VARCHAR(50)	XXXXXXXX	NA	Y		
	STADIUM_CAPACITY	Capacity	NUMERIC(6)	######	000001-999999	Y		
MATCH	MATCH_CODE	Match Code	NUMERIC(3)	###	001-999	Y	PK	
	MATCH_KIND	Match Kind	VARCHAR(25)	XXXXXXXX	NA	Y		
	MATCH_WINNERTEAM	Team Code	NUMERIC(3)	###	001-999	Y	FK	TEAM
	MATCH_LOSSTEAM	Team Code	NUMERIC(3)	###	001-999	Y	FK	TEAM
	MATCH_TIME	Time	TIME	HH:MM:SS	NA	Y		
	MATCH_WINNERTEAMSCORE	Winner Team Score	NUMERIC(2)	##	01-99	Y		
	MATCH_LOSSTEAMSCORE	Loss Team Score	NUMERIC(2)	##	01-99	Y		
	MATCH_REFEREE	Referee Code	NUMERIC(3)	###	001-999	Y	FK	REFEREE
	MATCH_REFASS1	Referee Code	NUMERIC(3)	###	001-999	Y	FK	REFEREE
	MATCH_REFASS2	Referee Code	NUMERIC(3)	###	001-999	Y	FK	REFEREE
	MATCH_REF4TH	Referee Code	NUMERIC(3)	###	001-999	Y	FK	REFEREE
	MATCH_REFASSSUP	Referee Code	NUMERIC(3)	###	001-999	Y	FK	REFEREE
	MATCH_STADIUM	Stadium Code	NUMERIC(2)	##	01-99	Y	FK	STADIUM
REFEREE	REFEREE_CODE	Referee Code	NUMERIC(3)	###	001-999	Y	PK	
	REFEREE_LASTNAME	Last Name	VARCHAR(40)	XXXXXXXX	NA	Y		
	REFEREE_FIRSTNAME	First Name	VARCHAR(40)	XXXXXXXX	NA	Y		
	REFEREE_NATIONALITY	Nationality	VARCHAR(25)	XXXXXXXX	NA	Y		
	REFEREE_DATEOFBIRTH	Date of Birth	DATE	DD-MON-YYYY	NA	Y		
	REFEREE_EXPERIENCE	International since	YEAR	YYYY	NA	Y		
COACH	COACH_CODE	Coach Code	NUMERIC(3)	###	001-999	Y	PK	
	COACH_LASTNAME	Last Name	VARCHAR(40)	XXXXXXXX	NA	Y		
	COACH_FIRSTNAME	First Name	VARCHAR(40)	XXXXXXXX	NA	Y		
	COACH_DATEOFBIRTH	Date of Birth	DATE	DD-MON-YYYY	NA	Y		
	COACH_NATIONALITY	Nationality	VARCHAR(25)	XXXXXXXX	NA	Y		
GOAL	GOAL_CODE	Goal Code	NUMERIC(3)	###	001-999	Y	PK	
	GOAL_MATCH	Match Code	NUMERIC(3)	###	001-999	Y	FK	MATCH
	GOAL_PLAYER	Player Code	NUMERIC(4)	####	0001-9999	Y	FK	PLAYER
	GOAL_TIME	Goal Time	TIME	HH:MM:SS	NA	Y		

- Entity Relationship Diagram (ERD) :

→ Description of operations :

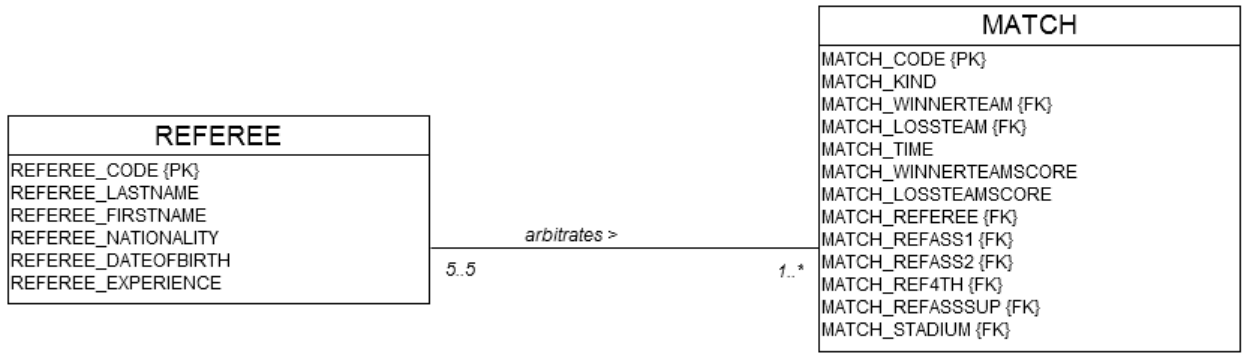
- each team is composed of players and has a coach to train the player
- two teams play a match against each other
- every match is arbitrated by some referees
- a match takes place in a defined stadium
- a goal is marked by a specified player during a specified match
- one player of a team is the captain of this one

→ First FIFA World Cup 2010 ERD segment :

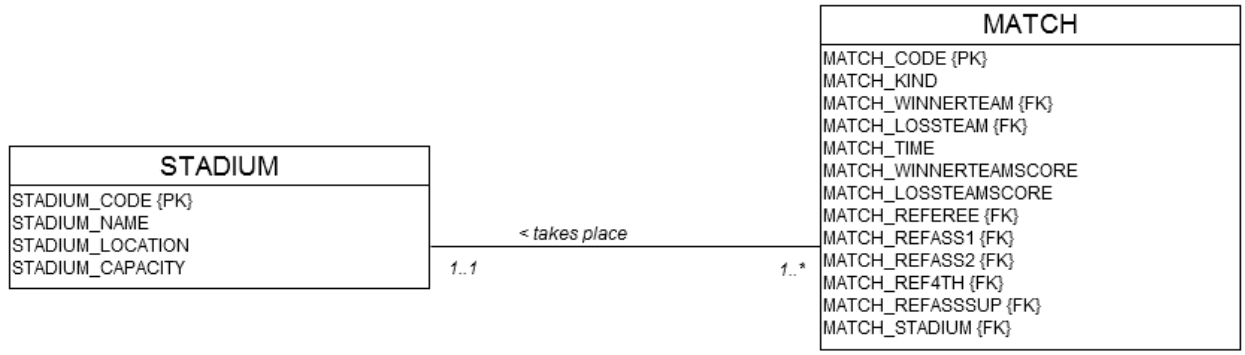


→ Second FIFA World Cup 2010 ERD segment :

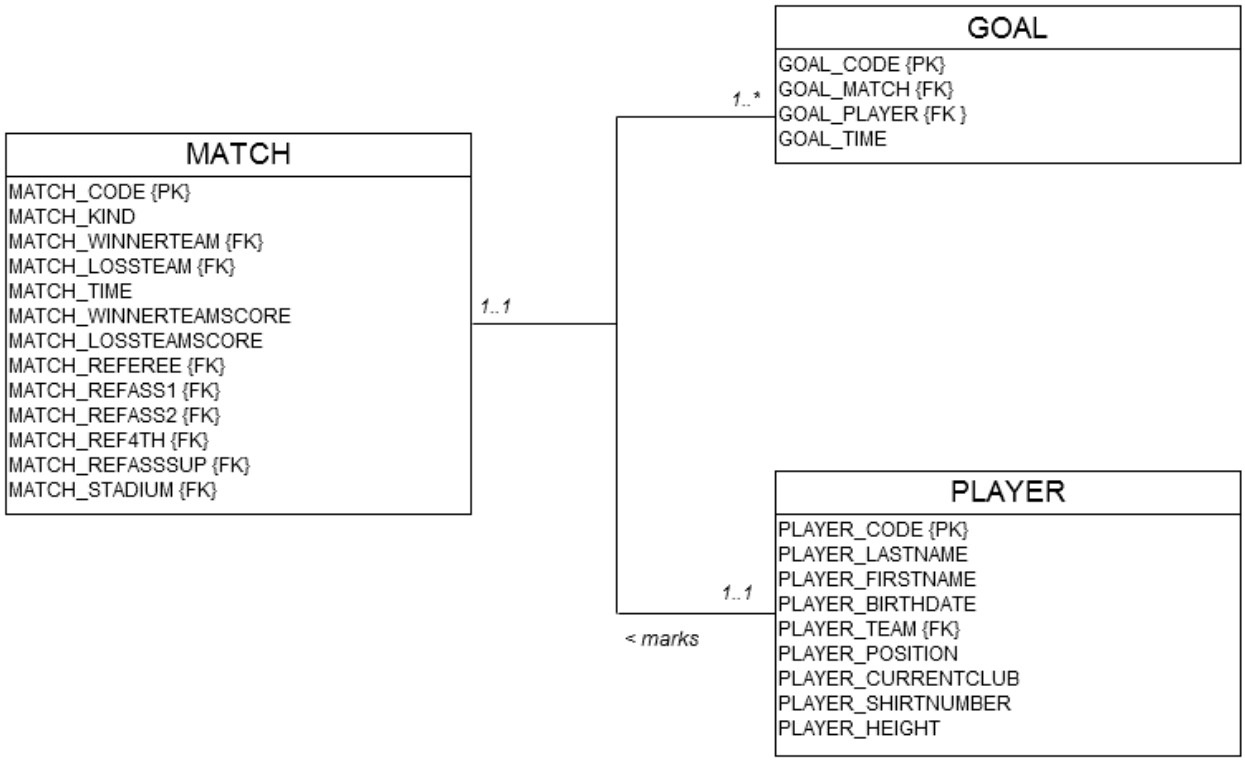
→ Third FIFA World Cup 2010 ERD segment :



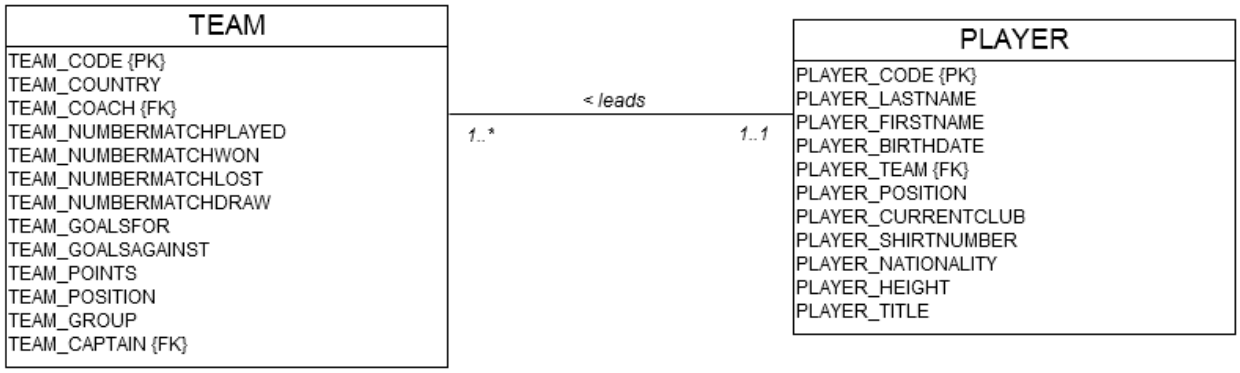
→ Fourth FIFA World Cup 2010 ERD segment :



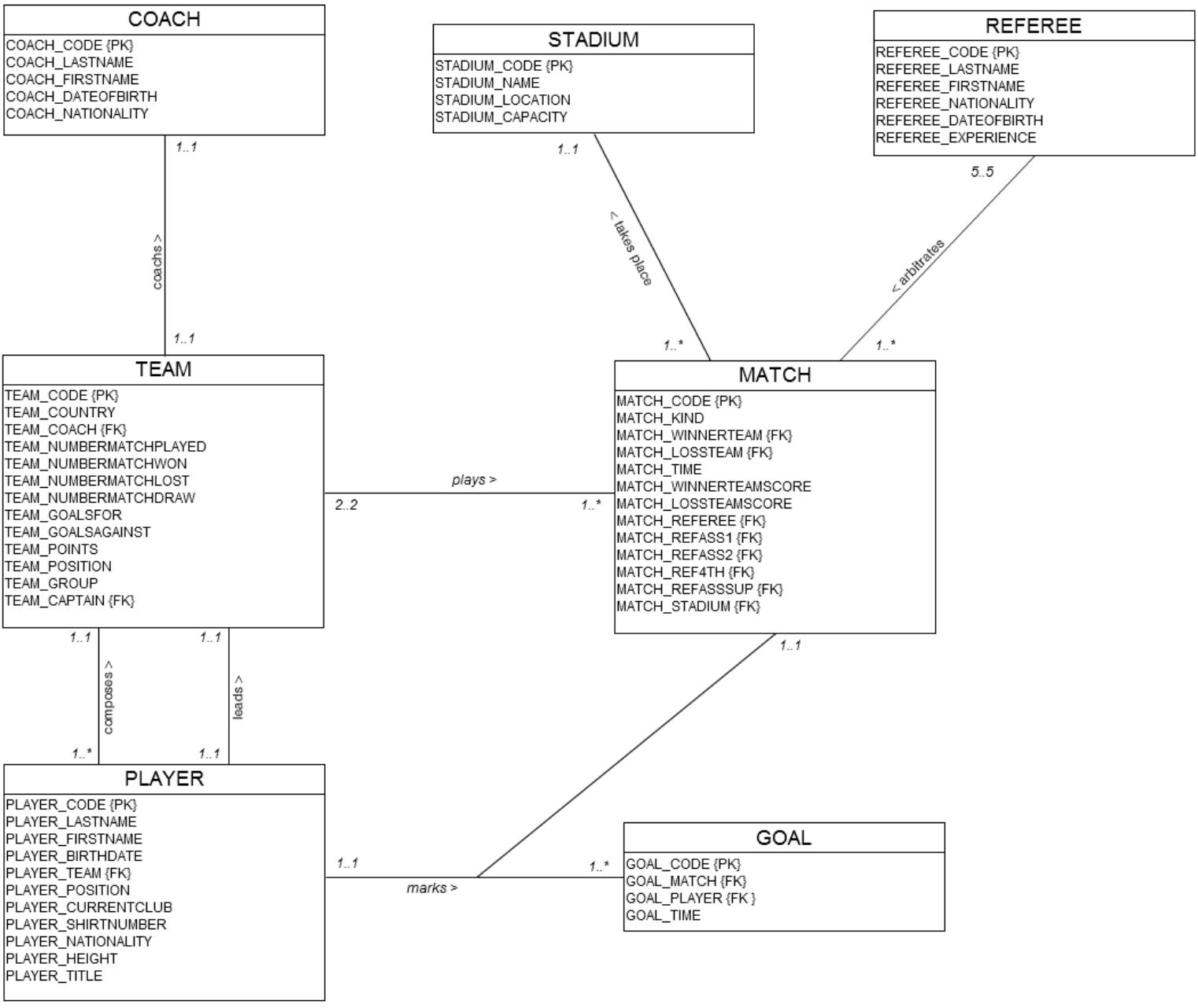
→ Fifth FIFA World Cup 2010 ERD segment :



→ Sixth FIFA World Cup 2010 ERD segment :



→ Completed FIFA World Cup 2010 ERD Segment :



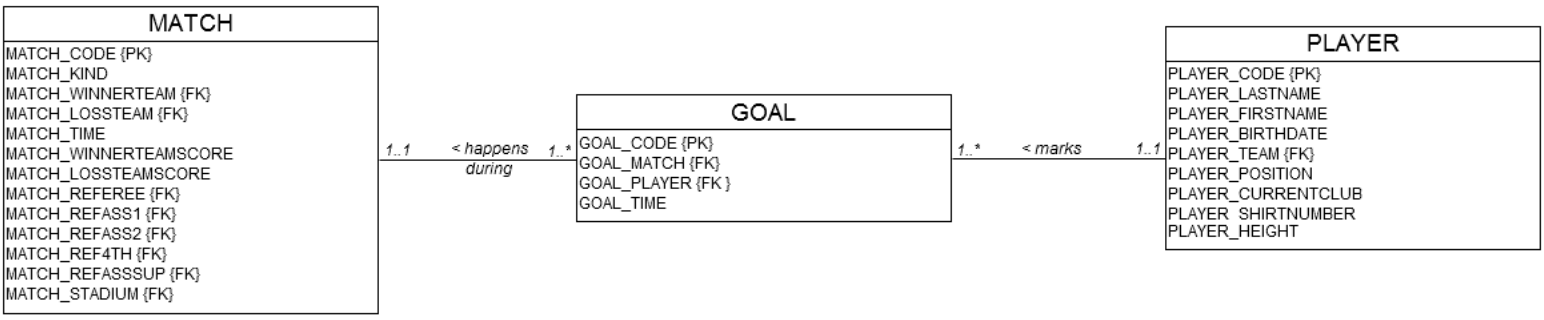
- Normalization :

→ Avoid the redundancy of the nationality/country which appear in PLAYER, COACH, REFEREE and TEAM tables : create a new table COUNTRY which has a relationship with each table quoted before.

COUNTRY
COUNTRY_CODE
COUNTRY_NAME

COUNTRY_CODE : NUMERIC(3), required, primary key
COUNTRY_NAME : VARCHAR(50), required

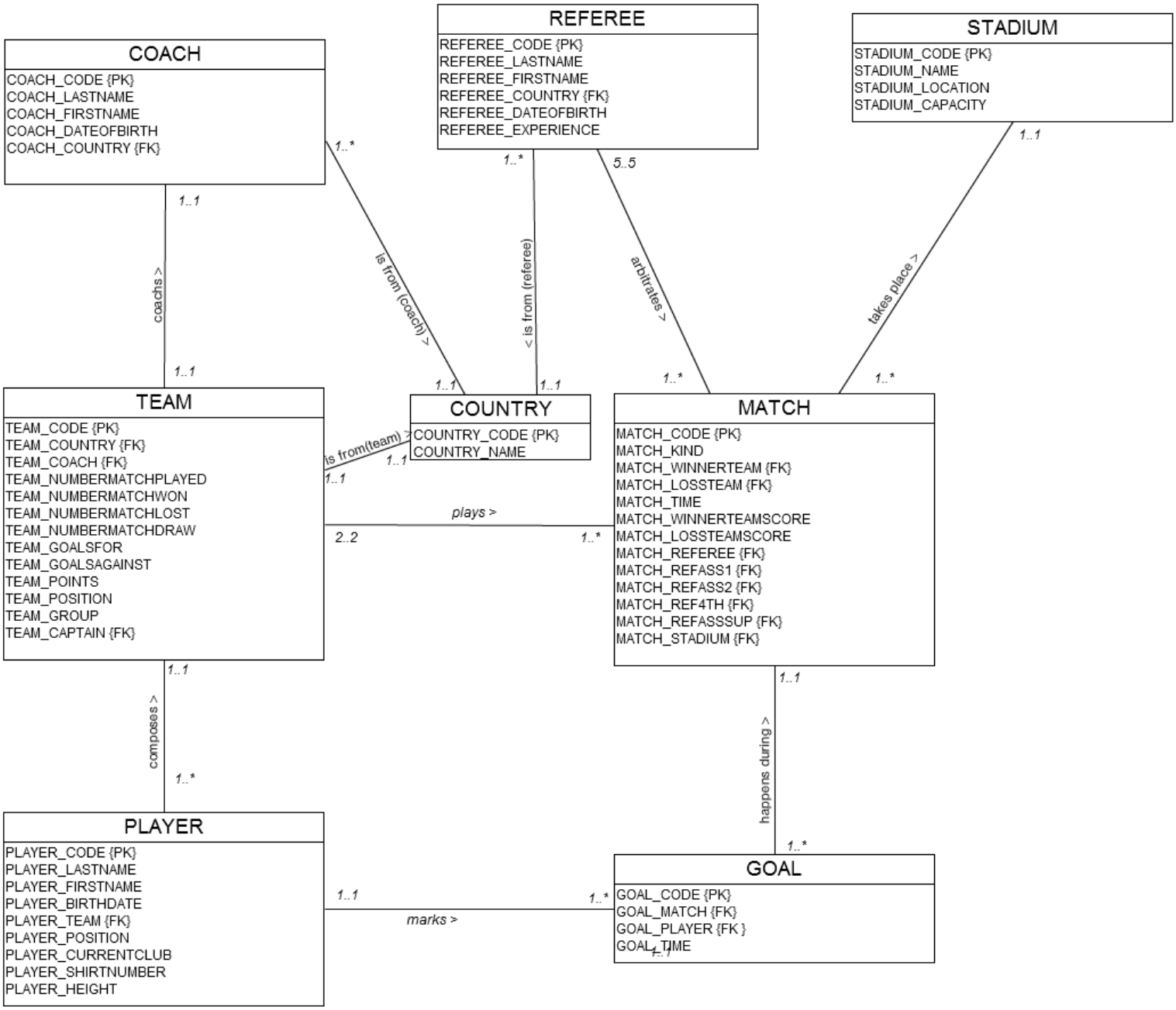
→ Make the ternary relationship more simple :



→ Adapt the data PLAYER_POSITION type from VARCHAR(25) to ENUM('goalkeeper','defender',midfielder','forward')

→ Adapt the data MATCH_KIND type from VARCHAR(25) to ENUM('groupstage','roundof16','quarterfinals','semifinals','final')

- Post normalization ERD :



- Data definition :

```
CREATE DATABASE FIFA2010WORLDCUP;
USE FIFA2010WORLDCUP;

DROP TABLE COUNTRY;
DROP TABLE STADIUM;
DROP TABLE REFEREE;
DROP TABLE COACH;
DROP TABLE TEAM;
DROP TABLE GAME;
DROP TABLE PLAYER;
DROP TABLE GOAL;

CREATE TABLE COUNTRY (
COUNTRY_CODE NUMERIC(3) PRIMARY KEY,
COUNTRY_NAME VARCHAR(50) NOT NULL);

CREATE TABLE STADIUM (
STADIUM_CODE NUMERIC(2) PRIMARY KEY,
STADIUM_NAME VARCHAR(25) NOT NULL,
STADIUM_LOCATION VARCHAR(50) NOT NULL,
STADIUM_CAPACITY NUMERIC(6) NOT NULL);

CREATE TABLE REFEREE (
REFEREE_CODE NUMERIC(3) PRIMARY KEY,
REFEREE_LASTNAME VARCHAR(40) NOT NULL,
REFEREE_FIRSTNAME VARCHAR(40) NOT NULL,
REFEREE_DATEOFBIRTH DATE NOT NULL,
REFEREE_EXPERIENCE YEAR NOT NULL,
REFEREE_COUNTRY NUMERIC(3),
INDEX(REFEREE_COUNTRY),
CONSTRAINT FK_REFEREE_COUNTRY FOREIGN KEY(REFEREE_COUNTRY) REFERENCES
COUNTRY(COUNTRY_CODE));

CREATE TABLE COACH (
COACH_CODE NUMERIC(3) PRIMARY KEY,
COACH_LASTNAME VARCHAR(40) NOT NULL,
COACH_FIRSTNAME VARCHAR(40) NOT NULL,
COACH_DATEOFBIRTH DATE NOT NULL,
COACH_COUNTRY NUMERIC(3),
INDEX(COACH_COUNTRY),
CONSTRAINT FK_COACH_COUNTRY FOREIGN KEY(COACH_COUNTRY) REFERENCES
COUNTRY(COUNTRY_CODE));

CREATE TABLE TEAM (
TEAM_CODE NUMERIC(3) PRIMARY KEY,
TEAM_COUNTRY NUMERIC(3),
TEAM_COACH NUMERIC(3),
TEAM_NUMBERMATCHPLAYED NUMERIC(1) NOT NULL,
TEAM_NUMBERMATCHWON NUMERIC(1) NOT NULL,
TEAM_NUMBERMATCHLOST NUMERIC(1) NOT NULL,
TEAM_NUMBERMATCHDRAW NUMERIC(1) NOT NULL,
TEAM_GOALSFOR NUMERIC(2) NOT NULL,
TEAM_GOALSAGAINST NUMERIC(2) NOT NULL,
TEAM_POINTS NUMERIC(2) NOT NULL,
TEAM_POSITION NUMERIC(3) NOT NULL,
TEAM_GROUP CHAR(1) NOT NULL,
INDEX(TEAM_COUNTRY),
INDEX(TEAM_COACH),
CONSTRAINT FK_TEAM_COUNTRY FOREIGN KEY (TEAM_COUNTRY) REFERENCES
COUNTRY(COUNTRY_CODE),
CONSTRAINT FK_TEAM_COACH FOREIGN KEY (TEAM_COACH) REFERENCES COACH(COACH_CODE));

CREATE TABLE PLAYER (
PLAYER_CODE NUMERIC(4) PRIMARY KEY,
PLAYER_LASTNAME VARCHAR(40) NOT NULL,
PLAYER_FIRSTNAME VARCHAR(40) NOT NULL,
PLAYER_BIRTHDATE DATE NOT NULL,
```

```
PLAYER_TEAM NUMERIC(3),
PLAYER_POSITION ENUM('goalkeeper','defender','midfielder','forward') NOT NULL,
PLAYER_CURRENTCLUB VARCHAR(25) NOT NULL,
PLAYER_HEIGHT NUMERIC(3) NOT NULL,
PLAYER_SHIRTNUMBER NUMERIC(2) NOT NULL,
INDEX(PLAYER_TEAM),
CONSTRAINT FK_PLAYER_TEAM FOREIGN KEY (PLAYER_TEAM) REFERENCES TEAM(TEAM_CODE));

CREATE TABLE GAME (
GAME_CODE NUMERIC(3) PRIMARY KEY,
GAME_KIND ENUM('groupstage','roundof16','quarterfinals','semifinals','final') NOT NULL,
GAME_WINNERTEAM NUMERIC(3),
GAME_LOSSTEAM NUMERIC(3),
GAME_TIME TIME NOT NULL,
GAME_DATE DATE NOT NULL,
GAME_WINNERTEAMSCORE NUMERIC(2) NOT NULL,
GAME_LOSSTEAMSCORE NUMERIC(2) NOT NULL,
GAME_REFEREE NUMERIC(3),
GAME_REFASIST1 NUMERIC(3),
GAME_REFASIST2 NUMERIC(3),
GAME_REF4TH NUMERIC(3),
GAME_REFASISTSUP NUMERIC(3),
GAME_STADIUM NUMERIC(2),
INDEX(GAME_WINNERTEAM),
INDEX(GAME_LOSSTEAM),
INDEX(GAME_REFEREE),
INDEX(GAME_REFASIST1),
INDEX(GAME_REFASIST2),
INDEX(GAME_REF4TH),
INDEX(GAME_REFASISTSUP),
INDEX(GAME_STADIUM),
CONSTRAINT FK_GAME_WINNERTEAM FOREIGN KEY (GAME_WINNERTEAM) REFERENCES
TEAM(TEAM_CODE),
CONSTRAINT FK_GAME_LOSSTEAM FOREIGN KEY (GAME_LOSSTEAM) REFERENCES TEAM(TEAM_CODE),
CONSTRAINT FK_GAME_REFEREEE FOREIGN KEY (GAME_REFEREE) REFERENCES
REFEREE(REFEREE_CODE),
CONSTRAINT FK_GAME_REFASIST1 FOREIGN KEY (GAME_REFASIST1) REFERENCES
REFEREE(REFEREE_CODE),
CONSTRAINT FK_GAME_REFASIST2 FOREIGN KEY (GAME_REFASIST2) REFERENCES
REFEREE(REFEREE_CODE),
CONSTRAINT FK_GAME_REF4TH FOREIGN KEY (GAME_REF4TH) REFERENCES REFEREE(REFEREE_CODE),
CONSTRAINT FK_GAME_REFASISTSUP FOREIGN KEY (GAME_REFASISTSUP) REFERENCES
REFEREE(REFEREE_CODE),
CONSTRAINT FK_GAME_STADIUM FOREIGN KEY (GAME_STADIUM) REFERENCES STADIUM(STADIUM_CODE));

CREATE TABLE GOAL (
GOAL_CODE NUMERIC(3) PRIMARY KEY,
GOAL_GAME NUMERIC(3),
GOAL_PLAYER NUMERIC(4),
GOAL_TIME TIME NOT NULL,
INDEX(GOAL_GAME),
INDEX(GOAL_PLAYER),
CONSTRAINT FK_GOAL_GAME FOREIGN KEY (GOAL_GAME) REFERENCES GAME(GAME_CODE),
CONSTRAINT FK_GOAL_PLAYER FOREIGN KEY (GOAL_PLAYER) REFERENCES PLAYER(PLAYER_CODE));

ALTER TABLE TEAM
ADD TEAM_CAPTAIN NUMERIC(4),
ADD INDEX(TEAM_CAPTAIN),
ADD CONSTRAINT FK_TEAM_CAPTAIN FOREIGN KEY (TEAM_CAPTAIN) REFERENCES
PLAYER(PLAYER_CODE);
```

```
mysql> CREATE DATABASE FIFA2010WORLDCUP;
Query OK, 1 row affected (0.00 sec)

mysql> SHOW DATABASES;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| default_schema     |
| fifa2010worldcup   |
| mysql              |
| test               |
+--------------------+
5 rows in set (0.00 sec)

mysql> USE FIFA2010WORLDCUP;
Database changed
mysql> CREATE TABLE COUNTRY (
    -> COUNTRY_CODE NUMERIC(3) PRIMARY KEY,
    -> COUNTRY_NAME VARCHAR(50) NOT NULL);
Query OK, 0 rows affected (0.09 sec)

mysql> CREATE TABLE STADIUM (
    -> STADIUM_CODE NUMERIC(2) PRIMARY KEY,
    -> STADIUM_NAME VARCHAR(25) NOT NULL,
    -> STADIUM_LOCATION VARCHAR(50) NOT NULL,
    -> STADIUM_CAPACITY NUMERIC(6) NOT NULL);
Query OK, 0 rows affected (0.10 sec)

mysql> CREATE TABLE REFEREE (
    -> REFEREE_CODE NUMERIC(3) PRIMARY KEY,
    -> REFEREE_LASTNAME VARCHAR(40) NOT NULL,
    -> REFEREE_FIRSTNAME VARCHAR(40) NOT NULL,
    -> REFEREE_DATEOFBIRTH DATE NOT NULL,
    -> REFEREE_EXPERIENCE YEAR NOT NULL,
    -> REFEREE_COUNTRY NUMERIC(3),
    -> INDEX(REFEREE_COUNTRY),
    -> CONSTRAINT FK_REFEREE_COUNTRY FOREIGN KEY(REFEREE_COUNTRY) REFERENCES COU
NTRY(COUNTRY_CODE));
Query OK, 0 rows affected (0.07 sec)

mysql> CREATE TABLE COACH (
    -> COACH_CODE NUMERIC(3) PRIMARY KEY,
    -> COACH_LASTNAME VARCHAR(40) NOT NULL,
    -> COACH_FIRSTNAME VARCHAR(40) NOT NULL,
    -> COACH_DATEOFBIRTH DATE NOT NULL,
    -> COACH_COUNTRY NUMERIC(3),
    -> INDEX(COACH_COUNTRY),
    -> CONSTRAINT FK_COACH_COUNTRY FOREIGN KEY(COACH_COUNTRY) REFERENCES COUNTRY
(COUNTRY_CODE));
Query OK, 0 rows affected (0.12 sec)

mysql> CREATE TABLE TEAM (
    -> TEAM_CODE NUMERIC(3) PRIMARY KEY,
    -> TEAM_COUNTRY NUMERIC(3),
    -> TEAM_COACH NUMERIC(3),
    -> TEAM_NUMBERMATCHPLAYED NUMERIC(1) NOT NULL,
    -> TEAM_NUMBERMATCHWON NUMERIC(1) NOT NULL,
    -> TEAM_NUMBERMATCHLOST NUMERIC(1) NOT NULL,
    -> TEAM_NUMBERMATCHDRAW NUMERIC(1) NOT NULL,
    -> TEAM_GOALSFOR NUMERIC(2) NOT NULL,
    -> TEAM_GOALSAGAINST NUMERIC(2) NOT NULL,
    -> TEAM_POINTS NUMERIC(2) NOT NULL,
    -> TEAM_POSITION NUMERIC(3) NOT NULL,
    -> TEAM_GROUP CHAR(1) NOT NULL,
    -> INDEX(TEAM_COUNTRY),
    -> INDEX(TEAM_COACH),
    -> CONSTRAINT FK_TEAM_COUNTRY FOREIGN KEY (TEAM_COUNTRY) REFERENCES COUNTRY(
COUNTRY_CODE),
    -> CONSTRAINT FK_TEAM_COACH FOREIGN KEY (TEAM_COACH) REFERENCES COACH(COACH_
CODE));
Query OK, 0 rows affected (0.11 sec)

mysql> CREATE TABLE PLAYER (
    -> PLAYER_CODE NUMERIC(4) PRIMARY KEY,
    -> PLAYER_LASTNAME VARCHAR(40) NOT NULL,
    -> PLAYER_FIRSTNAME VARCHAR(40) NOT NULL,
    -> PLAYER_BIRTHDATE DATE NOT NULL,
    -> PLAYER_TEAM NUMERIC(3),
    -> PLAYER_POSITION ENUM('goalkeeper','defender','midfielder','forward') NOT
NULL,
    -> PLAYER_CURRENTCLUB VARCHAR(25) NOT NULL,
    -> PLAYER_HEIGHT NUMERIC(3) NOT NULL,
    -> PLAYER_SHIRTNUMBER NUMERIC(2) NOT NULL,
    -> INDEX(PLAYER_TEAM),
    -> CONSTRAINT FK_PLAYER_TEAM FOREIGN KEY (PLAYER_TEAM) REFERENCES TEAM(TEAM_
CODE));
Query OK, 0 rows affected (0.08 sec)

mysql> CREATE TABLE GAME (
    -> GAME_CODE NUMERIC(3) PRIMARY KEY,
    -> GAME_KIND ENUM('groupstage','roundof16','quarterfinals','semifinals','fin
al') NOT NULL,
    -> GAME_WINNERTEAM NUMERIC(3),
    -> GAME_LOSSTEAM NUMERIC(3),
    -> GAME_TIME TIME NOT NULL,
    -> GAME_DATE DATE NOT NULL,
    -> GAME_WINNERTEAMSCORE NUMERIC(2) NOT NULL,
    -> GAME_LOSSTEAMSCORE NUMERIC(2) NOT NULL,
    -> GAME_REFEREE NUMERIC(3),
    -> GAME_REFASIST1 NUMERIC(3),
    -> GAME_REFASIST2 NUMERIC(3),
    -> GAME_REF4TH NUMERIC(3),
    -> GAME_REFASISTSUP NUMERIC(3),
    -> GAME_STADIUM NUMERIC(2),
    -> INDEX(GAME_WINNERTEAM),
    -> INDEX(GAME_LOSSTEAM),
    -> INDEX(GAME_REFEREE),
    -> INDEX(GAME_REFASIST1),
    -> INDEX(GAME_REFASIST2),
    -> INDEX(GAME_REF4TH),
    -> INDEX(GAME_REFASISTSUP),
    -> INDEX(GAME_STADIUM),
    -> CONSTRAINT FK_GAME_WINNERTEAM FOREIGN KEY (GAME_WINNERTEAM) REFERENCES TE
AM(TEAM_CODE),
    -> CONSTRAINT FK_GAME_LOSSTEAM FOREIGN KEY (GAME_LOSSTEAM) REFERENCES TEAM(T
EAM_CODE),
    -> CONSTRAINT FK_GAME_REFEREEE FOREIGN KEY (GAME_REFEREE) REFERENCES REFEREE
(REFEREE_CODE),
    -> CONSTRAINT FK_GAME_REFASIST1 FOREIGN KEY (GAME_REFASIST1) REFERENCES REFE
REE(REFEREE_CODE),
    -> CONSTRAINT FK_GAME_REFASIST2 FOREIGN KEY (GAME_REFASIST2) REFERENCES REFE
REE(REFEREE_CODE),
    -> CONSTRAINT FK_GAME_REF4TH FOREIGN KEY (GAME_REF4TH) REFERENCES REFEREE(RE
FEREE_CODE),
    -> CONSTRAINT FK_GAME_REFASISTSUP FOREIGN KEY (GAME_REFASISTSUP) REFERENCES
REFEREE(REFEREE_CODE),
    -> CONSTRAINT FK_GAME_STADIUM FOREIGN KEY (GAME_STADIUM) REFERENCES STADIUM(
STADIUM_CODE));
Query OK, 0 rows affected (0.28 sec)

mysql> CREATE TABLE GOAL (
    -> GOAL_CODE NUMERIC(3) PRIMARY KEY,
    -> GOAL_GAME NUMERIC(3),
    -> GOAL_PLAYER NUMERIC(4),
    -> GOAL_TIME TIME NOT NULL,
    -> INDEX(GOAL_GAME),
    -> INDEX(GOAL_PLAYER),
    -> CONSTRAINT FK_GOAL_GAME FOREIGN KEY (GOAL_GAME) REFERENCES GAME(GAME_CODE
),
    -> CONSTRAINT FK_GOAL_PLAYER FOREIGN KEY (GOAL_PLAYER) REFERENCES PLAYER(PLA
YER_CODE));
Query OK, 0 rows affected (0.16 sec)

mysql> ALTER TABLE TEAM
    -> ADD TEAM_CAPTAIN NUMERIC(4),
    -> ADD INDEX(TEAM_CAPTAIN),
    -> ADD CONSTRAINT FK_TEAM_CAPTAIN FOREIGN KEY (TEAM_CAPTAIN) REFERENCES PLAY
ER(PLAYER_CODE);
Query OK, 0 rows affected (0.21 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

- Data Manipulation I :

```
INSERT INTO COUNTRY VALUES(001,'Paraguay');
INSERT INTO COUNTRY VALUES(002,'Spain');
INSERT INTO COUNTRY VALUES(003,'Germany');
INSERT INTO COUNTRY VALUES(004,'Netherlands');
INSERT INTO COUNTRY VALUES(005,'Hungary');
INSERT INTO COUNTRY VALUES(006,'Belgium');
INSERT INTO COUNTRY VALUES(007,'Guatemala');
INSERT INTO COUNTRY VALUES(008,'Costa Rica');
INSERT INTO COUNTRY VALUES(009,'Mexico');
INSERT INTO COUNTRY VALUES(010,'Honduras');
INSERT INTO COUNTRY VALUES(011,'Canada');
INSERT INTO COUNTRY VALUES(012,'England');
INSERT INTO COUNTRY VALUES(013,'Japan');
INSERT INTO COUNTRY VALUES(014,'Argentina');

INSERT INTO STADIUM VALUES(01,'Ellis Park','Johannesburg',55686);
INSERT INTO STADIUM VALUES(02,'Soccer City','Johannesburg',84490);
INSERT INTO STADIUM VALUES(03,'Moses Mabhida','Durban',62760);

INSERT INTO REFEREE VALUES(001,'Kassai','Viktor','1975-09-10','2003',005);
INSERT INTO REFEREE VALUES(002,'Eros','Gabor','71-09-05','2003',005);
INSERT INTO REFEREE VALUES(003,'Vamos','Tibor','1967-01-16','1999',005);
INSERT INTO REFEREE VALUES(004,'Hermans','Peter','1975-09-10','2003',006);
INSERT INTO REFEREE VALUES(005,'De Bleeckere','Frank','1966-07-01','1998',006);
INSERT INTO REFEREE VALUES(006,'Batres','Carlos','1968-04-02','1996',007);
INSERT INTO REFEREE VALUES(007,'Leal','Leonel','1976-11-21','2001',008);
INSERT INTO REFEREE VALUES(008,'Archundia','Benito','1966-03-21','1993',009);
INSERT INTO REFEREE VALUES(009,'Pastrana','Carlos','1968-11-27','1999',010);
INSERT INTO REFEREE VALUES(010,'Vergara','Hector','1966-12-15','1993',011);
INSERT INTO REFEREE VALUES(011,'Webb','Howard','1971-07-14','2005',012);
INSERT INTO REFEREE VALUES(012,'Cann','Darren','1969-01-22','2005',012);
INSERT INTO REFEREE VALUES(013,'Mullarkey','Michael','1970-05-03','2007',012);
INSERT INTO REFEREE VALUES(014,'Sagara','Toru','1976-06-25','2007',013);
INSERT INTO REFEREE VALUES(015,'Nishimura','Yuichi','1972-04-17','2004',013);

INSERT INTO COACH VALUES(001,'Loew','Joachim','1960-02-03',003);
INSERT INTO COACH VALUES(002,'Martino','Gerardo','1962-11-20',014);
INSERT INTO COACH VALUES(003,'Van Marwijk','Bert','1952-05-19',004);
INSERT INTO COACH VALUES(004,'Del Bosque','Vicente','1950-12-23',002);

INSERT INTO TEAM VALUES(001,001,002,3,1,0,2,3,1,5,2,'F',NULL);
INSERT INTO TEAM VALUES(002,002,004,3,2,1,0,4,2,6,1,'H',NULL);
INSERT INTO TEAM VALUES(003,003,001,3,2,1,0,5,1,6,4,'D',NULL);
INSERT INTO TEAM VALUES(004,004,003,3,3,0,0,5,1,9,3,'F',NULL);

INSERT INTO PLAYER VALUES(001,'Neuer','Manuel','1986-03-27',003,'goalkeeper','Schalke 04',190,1);
INSERT INTO PLAYER VALUES(002,'Jansen','Marcell','1985-11-04',003,'midfielder','Hamburger SV',190,2);
INSERT INTO PLAYER VALUES(003,'Friedrich','Arne','1979-05-29',003,'defender','Hertha Berlin',185,3);
INSERT INTO PLAYER VALUES(004,'Aogo','Dennis','1987-01-14',003,'defender','Hamburger SV',184,4);
INSERT INTO PLAYER VALUES(005,'Tasci','Serdar','1987-04-24',003,'defender','VfB Stuttgart',186,5);
INSERT INTO PLAYER VALUES(006,'Khedira','Sami','1987-04-04',003,'midfielder','VfB Stuttgart',189,6);
INSERT INTO PLAYER VALUES(007,'Schweinsteiger','Bastian','1984-08-01',003,'midfielder','Bayern Munich',180,7);
INSERT INTO PLAYER VALUES(008,'Oezil','Mesut','1988-10-15',003,'midfielder','Werder Bremen',182,8);
INSERT INTO PLAYER VALUES(009,'Kiessling','Stefan','1984-08-01',003,'forward','Bayer Leverkusen',191,9);
INSERT INTO PLAYER VALUES(010,'Podolski','Lukas','1985-06-04',003,'forward','FC Cologne',180,10);
INSERT INTO PLAYER VALUES(011,'Klose','Miroslav','1978-06-09',003,'forward','Bayern Munich',182,11);
INSERT INTO PLAYER VALUES(012,'Stekelenburg','Maarten','1982-09-22',004,'goalkeeper','Ajax',197,1);
INSERT INTO PLAYER VALUES(013,'Van Der Wiel','Gregory','1988-02-03',004,'defender','Ajax',180,2);
INSERT INTO PLAYER VALUES(014,'Heitinga','John','1983-11-15',004,'defender','Everton',182,3);
INSERT INTO PLAYER VALUES(015,'Mathijsen','Joris','1980-04-05',004,'defender','Hamburger SV',182,4);
INSERT INTO PLAYER VALUES(016,'Van Bronckhorst','Giovanni','1980-04-05',004,'defender','Feyenoord',176,5);
INSERT INTO PLAYER VALUES(017,'Van Bommel','Mark','1977-04-22',004,'midfielder','Bayern Munich',187,6);
INSERT INTO PLAYER VALUES(018,'Kuyt','Dirk','1980-07-22',004,'forward','Liverpool',183,7);
INSERT INTO PLAYER VALUES(019,'De Jong','Nigel','1984-03-11',004,'midfielder','Manchester City',174,8);
INSERT INTO PLAYER VALUES(020,'Van Persie','Robin','1983-08-06',004,'forward','Arsenal',184,9);
INSERT INTO PLAYER VALUES(021,'Sneijder','Wesley','1984-06-09',004,'midfielder','Inter',170,10);
INSERT INTO PLAYER VALUES(022,'Robben','Arjen','1984-01-23',004,'forward','Bayern Munich',180,11);
```

```
INSERT INTO PLAYER VALUES(023,'Villar','Justo','1977-06-30',001,'goalkeeper','Valladolid',180,1);
INSERT INTO PLAYER VALUES(024,'Veron','Dario','1979-07-26',001,'defender','Pumas UNAM',181,2);
INSERT INTO PLAYER VALUES(025,'Morel','Claudio','1978-02-02',001,'defender','Boca Juniors',175,3);
INSERT INTO PLAYER VALUES(026,'Caniza','Denis','1974-08-29',001,'defender','Leon',174,4);
INSERT INTO PLAYER VALUES(027,'Caceres','Julio Cesar','1979-10-05',001,'defender','Atletico Mineiro',181,5);
INSERT INTO PLAYER VALUES(028,'Bonet','Carlos','1977-10-02',001,'midfielder','Olimpia Asuncion',181,6);
INSERT INTO PLAYER VALUES(029,'Cardozo','Oscar','1983-05-20',001,'forward','Benfica',192,7);
INSERT INTO PLAYER VALUES(030,'Barreto','Edgar','1984-07-15',001,'midfielder','Atalanta',178,8);
INSERT INTO PLAYER VALUES(031,'Santa Cruz','Roque','1981-08-06',001,'forward','Manchester City',191,9);
INSERT INTO PLAYER VALUES(032,'Benitez','Edgar','1987-11-08',001,'forward','Pachuca',176,10);
INSERT INTO PLAYER VALUES(033,'Santana','Jonathan','1981-10-19',001,'midfielder','Wolfsburg',181,11);
INSERT INTO PLAYER VALUES(034,'Casillas','Iker','1981-05-20',002,'goalkeeper','Real Madrid',184,1);
INSERT INTO PLAYER VALUES(035,'Albiol','Raul','1985-09-04',002,'defender','Real Madrid',187,2);
INSERT INTO PLAYER VALUES(036,'Pique','Gerard','1987-02-02',002,'defender','Barcelona',192,3);
INSERT INTO PLAYER VALUES(037,'Marchena','Carlos','1979-07-31',002,'defender','Valencia',182,4);
INSERT INTO PLAYER VALUES(038,'Puyol','Carles','1978-04-13',002,'defender','Barcelona',178,5);
INSERT INTO PLAYER VALUES(039,'Iniesta','Andres','1984-05-11',002,'midfielder','Barcelona',170,6);
INSERT INTO PLAYER VALUES(040,'Villa','David','1981-12-03',002,'forward','Valencia',175,7);
INSERT INTO PLAYER VALUES(041,'Xavi','Hernandez','1980-01-25',002,'midfielder','Barcelona',170,8);
INSERT INTO PLAYER VALUES(042,'Torres','Fernando','1984-03-20',002,'forward','Liverpool',181,9);
INSERT INTO PLAYER VALUES(043,'Fabregas','Cesc','1987-05-04',002,'midfielder','Arsenal',175,10);
INSERT INTO PLAYER VALUES(044,'Capdevila','Joan','1978-02-03',002,'defender','Villareal',182,11);

INSERT INTO GAME VALUES(001,'quarterfinals',002,001,'01:34:00','2010-07-03',1,0,006,007,009,008,010,01);
INSERT INTO GAME VALUES(002,'semifinals',002,003,'01:34:00','2010-07-07',1,0,001,002,003,005,004,03);
INSERT INTO GAME VALUES(003,'final',002,004,'02:08:00','2010-07-11',1,0,011,012,013,015,014,02);

INSERT INTO GOAL VALUES(001,001,040,'01:23:00');
INSERT INTO GOAL VALUES(002,003,039,'01:56:00');
INSERT INTO GOAL VALUES(003,002,038,'01:13:00');

UPDATE TEAM SET TEAM_CAPTAIN = 034 WHERE TEAM_CODE = 002;
UPDATE TEAM SET TEAM_CAPTAIN = 027 WHERE TEAM_CODE = 001;
UPDATE TEAM SET TEAM_CAPTAIN = 022 WHERE TEAM_CODE = 004;
UPDATE TEAM SET TEAM_CAPTAIN = 008 WHERE TEAM_CODE = 001;

COMMIT;
```

```
mysql> INSERT INTO COUNTRY VALUES(014,'Argentina');
Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO REFEREE VALUES(015,'Nishimura','Yuichi','1972-04-17','2004',0
13);
Query OK, 1 row affected (0.04 sec)

mysql> INSERT INTO STADIUM VALUES(03,'Moses Mabhida','Durban',62760);
Query OK, 1 row affected (0.04 sec)

mysql> INSERT INTO COACH VALUES(002,'Martino','Gerardo','1962-11-20',014);
Query OK, 1 row affected (0.02 sec)

mysql> INSERT INTO TEAM VALUES(001,001,002,3,1,0,2,3,1,5,2,'F',NULL);
Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO PLAYER VALUES(023,'Villar','Justo','1977-06-30',001,'goalkeep
er','Valladolid',180,1);
Query OK, 1 row affected (0.05 sec)

mysql> INSERT INTO GAME VALUES(001,'quarterfinals',002,001,'01:34:00','2010-07-0
3',1,0,006,007,009,008,010,01);
Query OK, 1 row affected (0.11 sec)

mysql> INSERT INTO GOAL VALUES(001,001,040,'01:23:00');
Query OK, 1 row affected (0.04 sec)

mysql> UPDATE TEAM SET TEAM_CAPTAIN = 034 WHERE TEAM_CODE = 002;
Query OK, 1 row affected (0.07 sec)
Rows matched: 1  Changed: 1  Warnings: 0
```

- Data Manipulation II :

→ This request display all players from a same given team.

```
SELECT * FROM PLAYER WHERE PLAYER_TEAM = (
SELECT TEAM_CODE FROM TEAM WHERE TEAM_COUNTRY = (
SELECT COUNTRY_CODE FROM COUNTRY WHERE COUNTRY_NAME = 'Germany'))
ORDER BY PLAYER_LASTNAME;
```

```
mysql> SELECT * FROM PLAYER WHERE PLAYER_TEAM = (
    -> SELECT TEAM_CODE FROM TEAM WHERE TEAM_COUNTRY = (
    -> SELECT COUNTRY_CODE FROM COUNTRY WHERE COUNTRY_NAME = 'Germany'))
    -> ORDER BY PLAYER_LASTNAME;
+-------------+-----------------+------------------+------------------+---------
----+-----------------+--------------------+---------------+--------------------
+
| PLAYER_CODE | PLAYER_LASTNAME | PLAYER_FIRSTNAME | PLAYER_BIRTHDATE | PLAYER_T
EAM | PLAYER_POSITION | PLAYER_CURRENTCLUB | PLAYER_HEIGHT | PLAYER_SHIRTNUMBER
|
+-------------+-----------------+------------------+------------------+---------
----+-----------------+--------------------+---------------+--------------------
+
|           4 | Aogo            | Dennis           | 1987-01-14       |
  3 | defender        | Hamburger SV       |           184 |                  4
|
|           3 | Friedrich       | Arne             | 1979-05-29       |
  3 | defender        | Hertha Berlin      |           185 |                  3
|
|           2 | Jansen          | Marcell          | 1985-11-04       |
  3 | midfielder      | Hamburger SV       |           190 |                  2
|
|           6 | Khedira         | Sami             | 1987-04-04       |
  3 | midfielder      | VfB Stuttgart      |           189 |                  6
|
|           9 | Kiessling       | Stefan           | 1984-08-01       |
  3 | forward         | Bayer Leverkusen   |           191 |                  9
|
|          11 | Klose           | Miroslav         | 1978-06-09       |
  3 | forward         | Bayern Munich      |           182 |                 11
|
|           1 | Neuer           | Manuel           | 1986-03-27       |
  3 | goalkeeper      | Schalke 04         |           190 |                  1
|
|           8 | Oezil           | Mesut            | 1988-10-15       |
  3 | midfielder      | Werder Bremen      |           182 |                  8
|
|          10 | Podolski        | Lukas            | 1985-06-04       |
  3 | forward         | FC Cologne         |           180 |                 10
|
|           7 | Schweinsteiger  | Bastian          | 1984-08-01       |
  3 | midfielder      | Bayern Munich      |           180 |                  7
|
|           5 | Tasci           | Serdar           | 1987-04-24       |
  3 | defender        | VfB Stuttgart      |           186 |                  5
|
+-------------+-----------------+------------------+------------------+---------
----+-----------------+--------------------+---------------+--------------------
+
11 rows in set (0.00 sec)
```

→ This request display the team ranking in the world cup.

```
SELECT TEAM_POSITION AS POSITION,COUNTRY_NAME AS COUNTRY,
CONCAT(UPPER(COACH_LASTNAME),LOWER(COACH_FIRSTNAME)) AS COACH, TEAM_GROUP
FROM COUNTRY,TEAM,COACH
WHERE TEAM_COUNTRY=COUNTRY_CODE AND TEAM_COACH=COACH_CODE
ORDER BY TEAM_POSITION;
```

```
mysql> SELECT TEAM_POSITION AS POSITION,COUNTRY_NAME AS COUNTRY, CONCAT(UPPER(CO
ACH_LASTNAME),LOWER(COACH_FIRSTNAME)) AS COACH, TEAM_GROUP
    -> FROM COUNTRY,TEAM,COACH
    -> WHERE TEAM_COUNTRY=COUNTRY_CODE AND TEAM_COACH=COACH_CODE
    -> ORDER BY TEAM_POSITION;
+----------+-------------+--------------------+------------+
| POSITION | COUNTRY     | COACH              | TEAM_GROUP |
+----------+-------------+--------------------+------------+
|        1 | Spain       | DEL BOSQUEvicente  | H          |
|        2 | Paraguay    | MARTINOgerardo     | F          |
|        3 | Netherlands | VAN MARWIJKbert    | F          |
|        4 | Germany     | LOEWjoachim        | D          |
+----------+-------------+--------------------+------------+
4 rows in set (0.00 sec)
```

→ This request display all the countries where are the referee from.

```
SELECT DISTINCT REFEREE_COUNTRY, COUNTRY_NAME
FROM REFEREE,COUNTRY
WHERE REFEREE_COUNTRY = COUNTRY_CODE;
```

```
mysql> SELECT DISTINCT REFEREE_COUNTRY, COUNTRY_NAME
    -> FROM REFEREE,COUNTRY
    -> WHERE REFEREE_COUNTRY = COUNTRY_CODE;
+-----------------+--------------+
| REFEREE_COUNTRY | COUNTRY_NAME |
+-----------------+--------------+
|               5 | Hungary      |
|               6 | Belgium      |
|               7 | Guatemala    |
|               8 | Costa Rica   |
|               9 | Mexico       |
|              10 | Honduras     |
|              11 | Canada       |
|              12 | England      |
|              13 | Japan        |
+-----------------+--------------+
9 rows in set (0.00 sec)
```

→ This request display the number of goals marked by the given player.

```
SELECT COUNT(*)
FROM GOAL
WHERE GOAL_PLAYER=038;
```

```
mysql> SELECT COUNT(*)
    -> FROM GOAL
    -> WHERE GOAL_PLAYER=038;
+----------+
| COUNT(*) |
+----------+
|        1 |
+----------+
1 row in set (0.00 sec)
```

→ This request display a view of all the goals marked during the world cup and by who it was marked.

```
CREATE VIEW GOALSMARKED AS
SELECT PLAYER_CODE, PLAYER_LASTNAME, PLAYER_FIRSTNAME, GOAL_CODE, GOAL_TIME
FROM PLAYER,GOAL
WHERE PLAYER_CODE=GOAL_PLAYER;
```

```
mysql> CREATE VIEW GOALSMARKED AS
    -> SELECT PLAYER_CODE, PLAYER_LASTNAME, PLAYER_FIRSTNAME, GOAL_CODE, GOAL_TI
ME
    -> FROM PLAYER,GOAL
    -> WHERE PLAYER_CODE=GOAL_PLAYER;
Query OK, 0 rows affected (0.04 sec)

mysql> SELECT * FROM GOALSMARKED;
+-------------+-----------------+------------------+-----------+-----------+
| PLAYER_CODE | PLAYER_LASTNAME | PLAYER_FIRSTNAME | GOAL_CODE | GOAL_TIME |
+-------------+-----------------+------------------+-----------+-----------+
|          40 | Villa           | David            |         1 | 01:23:00  |
|          39 | Iniesta         | Andres           |         2 | 01:56:00  |
|          38 | Puyol           | Carles           |         3 | 01:13:00  |
+-------------+-----------------+------------------+-----------+-----------+
3 rows in set (0.00 sec)
```

→ This request display a view of the number of goals marked by every player order by the best scorer.

```
CREATE VIEW NUMBEROFGOALS AS
SELECT PLAYER_LASTNAME, PLAYER_FIRSTNAME,COUNT(PLAYER_CODE) AS NUMBEROFGOALSMARKED
FROM GOALSMARKED
GROUP BY PLAYER_CODE
ORDER BY NUMBEROFGOALSMARKED;
```

```
mysql> CREATE VIEW NUMBEROFGOALS AS
    -> SELECT PLAYER_LASTNAME, PLAYER_FIRSTNAME,COUNT(PLAYER_CODE) AS NUMBEROFGO
ALSMARKED
    -> FROM GOALSMARKED
    -> GROUP BY PLAYER_CODE
    -> ORDER BY NUMBEROFGOALSMARKED;
Query OK, 0 rows affected (0.04 sec)

mysql> SELECT * FROM NUMBEROFGOALS;
+-----------------+------------------+----------------------+
| PLAYER_LASTNAME | PLAYER_FIRSTNAME | NUMBEROFGOALSMARKED |
+-----------------+------------------+----------------------+
| Villa           | David            |                    1 |
| Puyol           | Carles           |                    1 |
| Iniesta         | Andres           |                    1 |
+-----------------+------------------+----------------------+
3 rows in set (0.00 sec)
```

→ This request display the stadium which have a capacity over 60000.

```
SELECT *
FROM STADIUM
WHERE STADIUM_CAPACITY>60000;
```

```
mysql> SELECT *
    -> FROM STADIUM
    -> WHERE STADIUM_CAPACITY>60000;
+--------------+---------------+------------------+-------------------+
| STADIUM_CODE | STADIUM_NAME  | STADIUM_LOCATION | STADIUM_CAPACITY |
+--------------+---------------+------------------+-------------------+
|            2 | Soccer City   | Johannesburg     |             84490 |
|            3 | Moses Mabhida | Durban           |             62760 |
+--------------+---------------+------------------+-------------------+
2 rows in set (0.00 sec)
```

→ This request display the game which are a quarter or semi finals kind game.

```
SELECT GAME_CODE,GAME_KIND,GAME_WINNERTEAM AS WINNER,GAME_LOSSTEAM AS
LOSER,GAME_TIME,GAME_DATE
FROM  GAME
WHERE GAME_KIND IN ('quarterfinals','semifinals');
```

```
mysql> SELECT GAME_CODE,GAME_KIND,GAME_WINNERTEAM AS WINNER,GAME_LOSSTEAM AS LOS
ER,GAME_TIME,GAME_DATE
    -> FROM  GAME
    -> WHERE GAME_KIND IN ('quarterfinals','semifinals');
+-----------+---------------+--------+-------+-----------+------------+
| GAME_CODE | GAME_KIND     | WINNER | LOSER | GAME_TIME | GAME_DATE  |
+-----------+---------------+--------+-------+-----------+------------+
|         1 | quarterfinals |      2 |     1 | 01:34:00  | 2010-07-03 |
|         2 | semifinals    |      2 |     3 | 01:34:00  | 2010-07-07 |
+-----------+---------------+--------+-------+-----------+------------+
2 rows in set (0.00 sec)
```

→ This request display the stadium which have a location which begin with a 'J'.

```
SELECT STADIUM_NAME,STADIUM_LOCATION, STADIUM_CAPACITY
FROM  STADIUM
WHERE STADIUM_LOCATION LIKE ('J%');
```

```
mysql> SELECT STADIUM_NAME,STADIUM_LOCATION, STADIUM_CAPACITY
    -> FROM  STADIUM
    -> WHERE STADIUM_LOCATION LIKE ('J%');
+--------------+------------------+------------------+
| STADIUM_NAME | STADIUM_LOCATION | STADIUM_CAPACITY |
+--------------+------------------+------------------+
| Ellis Park   | Johannesburg     |            55686 |
| Soccer City  | Johannesburg     |            84490 |
+--------------+------------------+------------------+
2 rows in set (0.00 sec)
```

→ This request display all the players which have their height under 185cm.

```
SELECT  PLAYER_CODE, PLAYER_LASTNAME, PLAYER_FIRSTNAME, PLAYER_HEIGHT
FROM  PLAYER
GROUP BY  PLAYER_HEIGHT
HAVING  PLAYER_HEIGHT<185;
```

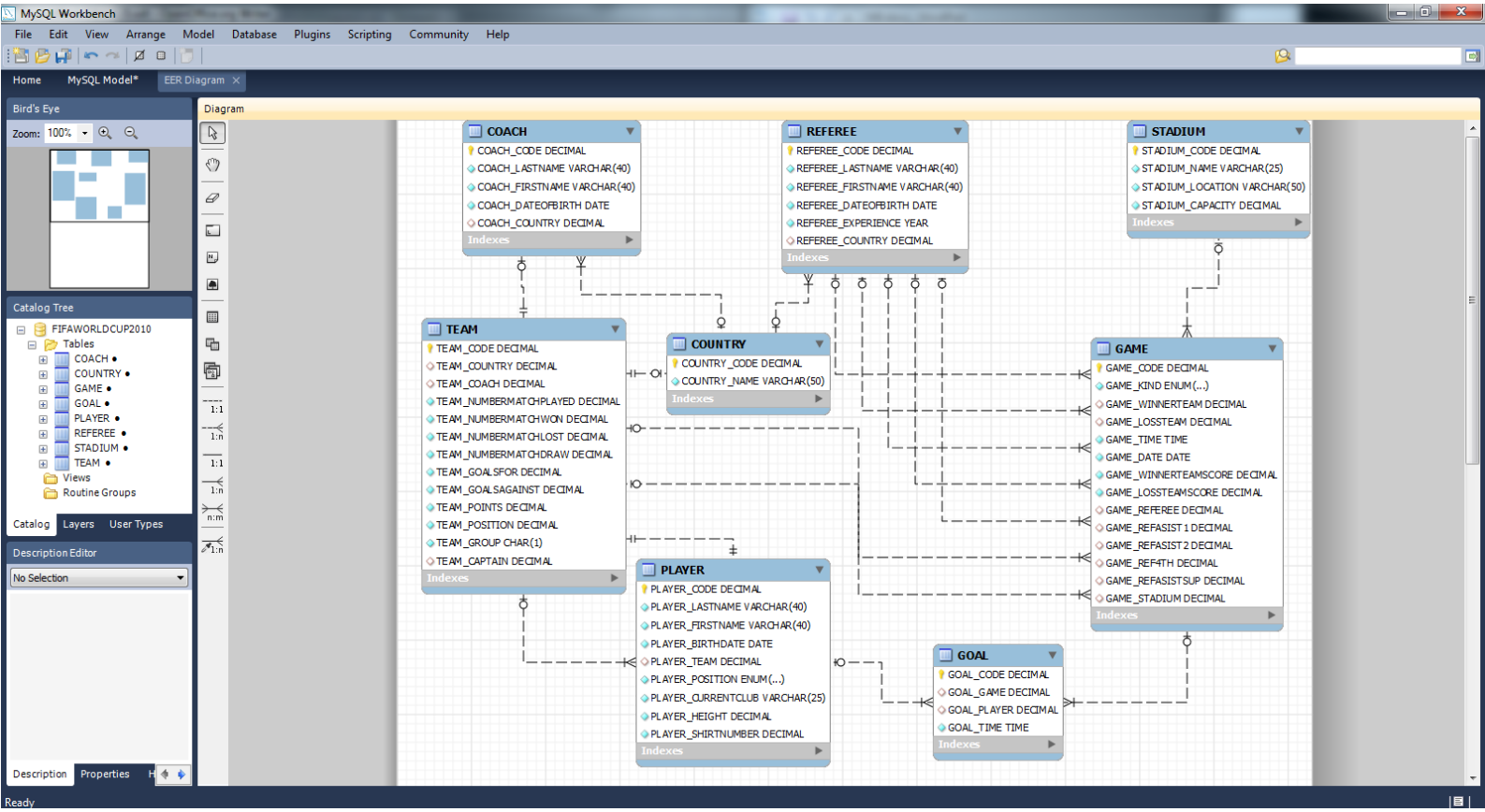
```
mysql> SELECT  PLAYER_CODE, PLAYER_LASTNAME, PLAYER_FIRSTNAME, PLAYER_HEIGHT
    -> FROM  PLAYER
    -> GROUP BY  PLAYER_HEIGHT
    -> HAVING  PLAYER_HEIGHT<185;
+-------------+----------------+-----------------+---------------+
| PLAYER_CODE | PLAYER_LASTNAME | PLAYER_FIRSTNAME | PLAYER_HEIGHT |
+-------------+----------------+-----------------+---------------+
|          21 | Sneijder       | Wesley          |           170 |
|          19 | De Jong        | Nigel           |           174 |
|          25 | Morel          | Claudio         |           175 |
|          16 | Van Bronckhorst | Giovanni        |           176 |
|          30 | Barreto        | Edgar           |           178 |
|           7 | Schweinsteiger | Bastian         |           180 |
|          24 | Veron          | Dario           |           181 |
|           8 | Oezil          | Mesut           |           182 |
|          18 | Kuyt           | Dirk            |           183 |
|           4 | Aogo           | Dennis          |           184 |
+-------------+----------------+-----------------+---------------+
10 rows in set (0.00 sec)
```

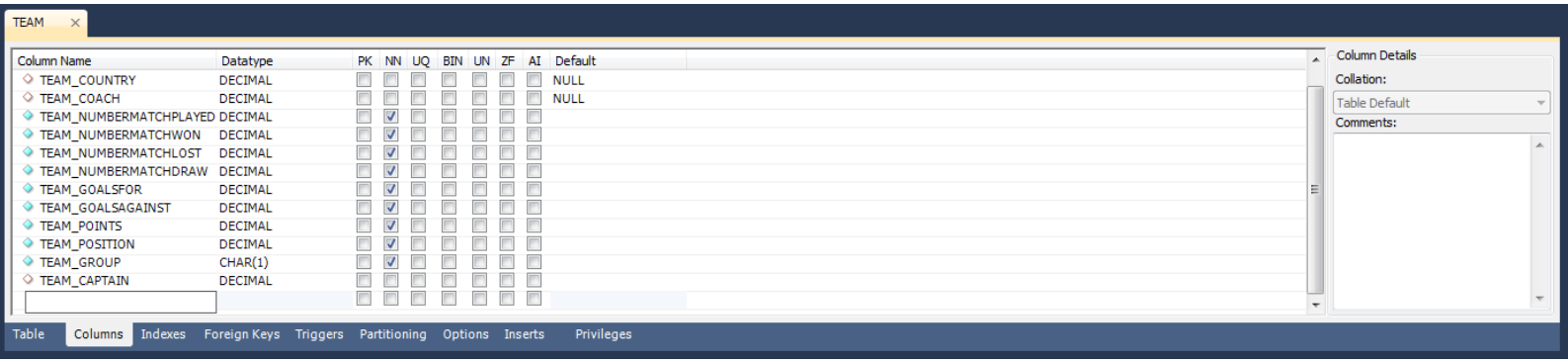
→ This request display the age of the player order by their team then by their age.

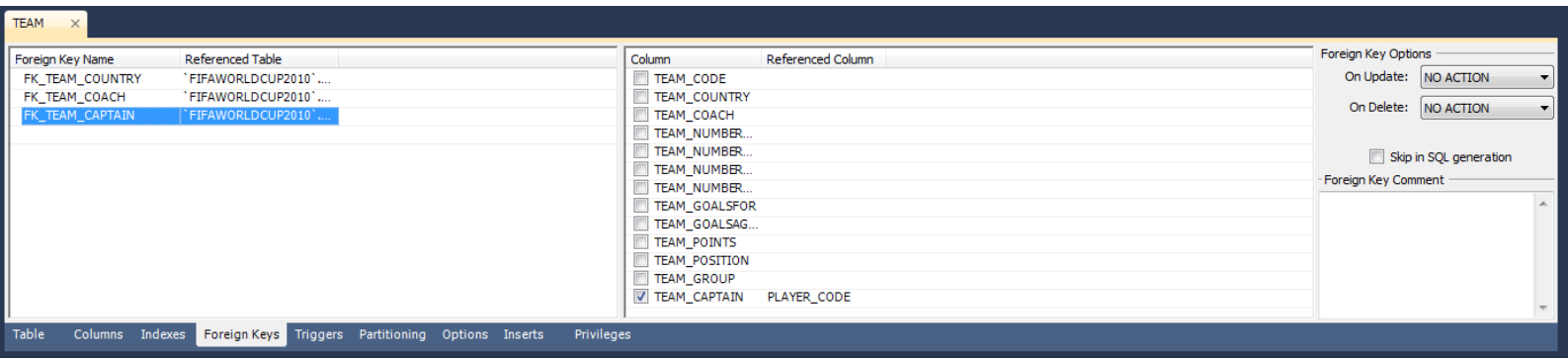
```
SELECT  PLAYER_LASTNAME, PLAYER_LASTNAME, PLAYER_TEAM,
FLOOR(DATEDIFF(CURRENT_DATE(),PLAYER_BIRTHDATE)/365) AS AGE, COUNTRY_NAME
FROM PLAYER,COUNTRY
WHERE PLAYER_TEAM = (
SELECT TEAM_CODE FROM TEAM
WHERE TEAM_COUNTRY=COUNTRY_CODE)
ORDER BY COUNTRY_NAME,AGE;
```

```
mysql> SELECT  PLAYER_LASTNAME, PLAYER_LASTNAME, PLAYER_TEAM, FLOOR(DATEDIFF(CUR
RENT_DATE(),PLAYER_BIRTHDATE)/365) AS AGE, COUNTRY_NAME
    -> FROM PLAYER,COUNTRY
    -> WHERE PLAYER_TEAM = (
    -> SELECT TEAM_CODE FROM TEAM
    -> WHERE TEAM_COUNTRY=COUNTRY_CODE)
    -> ORDER BY COUNTRY_NAME,AGE;
+-----------------+-----------------+-------------+------+--------------+
| PLAYER_LASTNAME | PLAYER_LASTNAME | PLAYER_TEAM | AGE  | COUNTRY_NAME |
+-----------------+-----------------+-------------+------+--------------+
| Oezil           | Oezil           |           3 |   22 | Germany      |
| Tasci           | Tasci           |           3 |   23 | Germany      |
| Aogo            | Aogo            |           3 |   23 | Germany      |
| Khedira         | Khedira         |           3 |   23 | Germany      |
| Neuer           | Neuer           |           3 |   24 | Germany      |
| Jansen          | Jansen          |           3 |   25 | Germany      |
| Podolski        | Podolski        |           3 |   25 | Germany      |
| Schweinsteiger  | Schweinsteiger  |           3 |   26 | Germany      |
| Kiessling       | Kiessling       |           3 |   26 | Germany      |
| Friedrich       | Friedrich       |           3 |   31 | Germany      |
| Klose           | Klose           |           3 |   32 | Germany      |
| Van Der Wiel    | Van Der Wiel    |           4 |   22 | Netherlands  |
| De Jong         | De Jong         |           4 |   26 | Netherlands  |
| Sneijder        | Sneijder        |           4 |   26 | Netherlands  |
| Robben          | Robben          |           4 |   26 | Netherlands  |
| Heitinga        | Heitinga        |           4 |   27 | Netherlands  |
| Van Persie      | Van Persie      |           4 |   27 | Netherlands  |
| Stekelenburg    | Stekelenburg    |           4 |   28 | Netherlands  |
| Van Bronckhorst | Van Bronckhorst |           4 |   30 | Netherlands  |
| Kuyt            | Kuyt            |           4 |   30 | Netherlands  |
| Mathijsen       | Mathijsen       |           4 |   30 | Netherlands  |
| Van Bommel      | Van Bommel      |           4 |   33 | Netherlands  |
| Benitez         | Benitez         |           1 |   23 | Paraguay     |
| Barreto         | Barreto         |           1 |   26 | Paraguay     |
| Cardozo         | Cardozo         |           1 |   27 | Paraguay     |
| Santa Cruz      | Santa Cruz      |           1 |   29 | Paraguay     |
| Santana         | Santana         |           1 |   29 | Paraguay     |
| Veron           | Veron           |           1 |   31 | Paraguay     |
| Caceres         | Caceres         |           1 |   31 | Paraguay     |
| Morel           | Morel           |           1 |   32 | Paraguay     |
| Bonet           | Bonet           |           1 |   33 | Paraguay     |
| Villar          | Villar          |           1 |   33 | Paraguay     |
| Caniza          | Caniza          |           1 |   36 | Paraguay     |
| Fabregas        | Fabregas        |           2 |   23 | Spain        |
| Pique           | Pique           |           2 |   23 | Spain        |
| Albiol          | Albiol          |           2 |   25 | Spain        |
| Torres          | Torres          |           2 |   26 | Spain        |
| Iniesta         | Iniesta         |           2 |   26 | Spain        |
| Villa           | Villa           |           2 |   29 | Spain        |
| Casillas        | Casillas        |           2 |   29 | Spain        |
| Xavi            | Xavi            |           2 |   30 | Spain        |
| Marchena        | Marchena        |           2 |   31 | Spain        |
| Capdevila       | Capdevila       |           2 |   32 | Spain        |
| Puyol           | Puyol           |           2 |   32 | Spain        |
+-----------------+-----------------+-------------+------+--------------+
44 rows in set (0.00 sec)
```

- MySQL Workbench GUI :







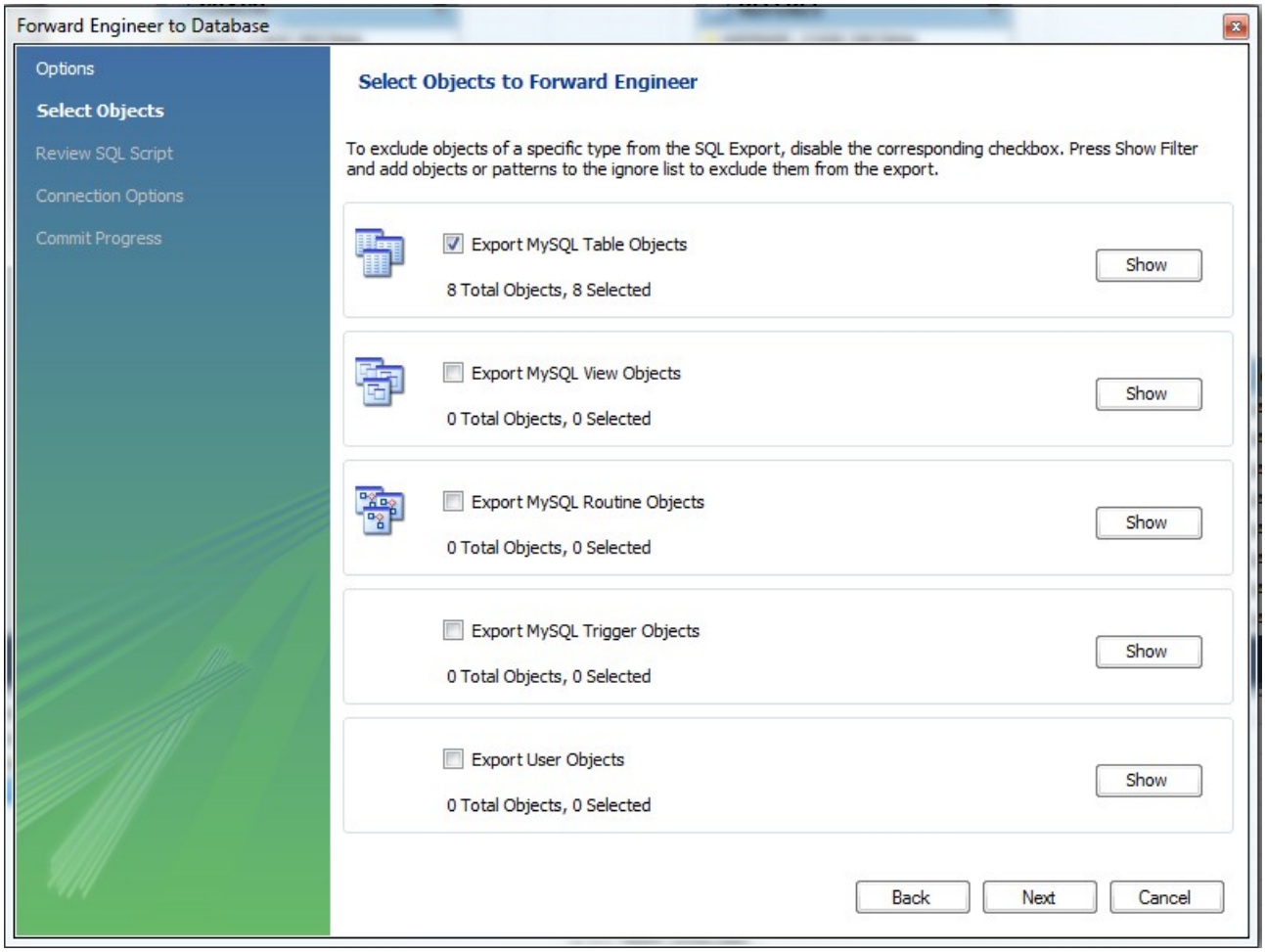
PLAYER

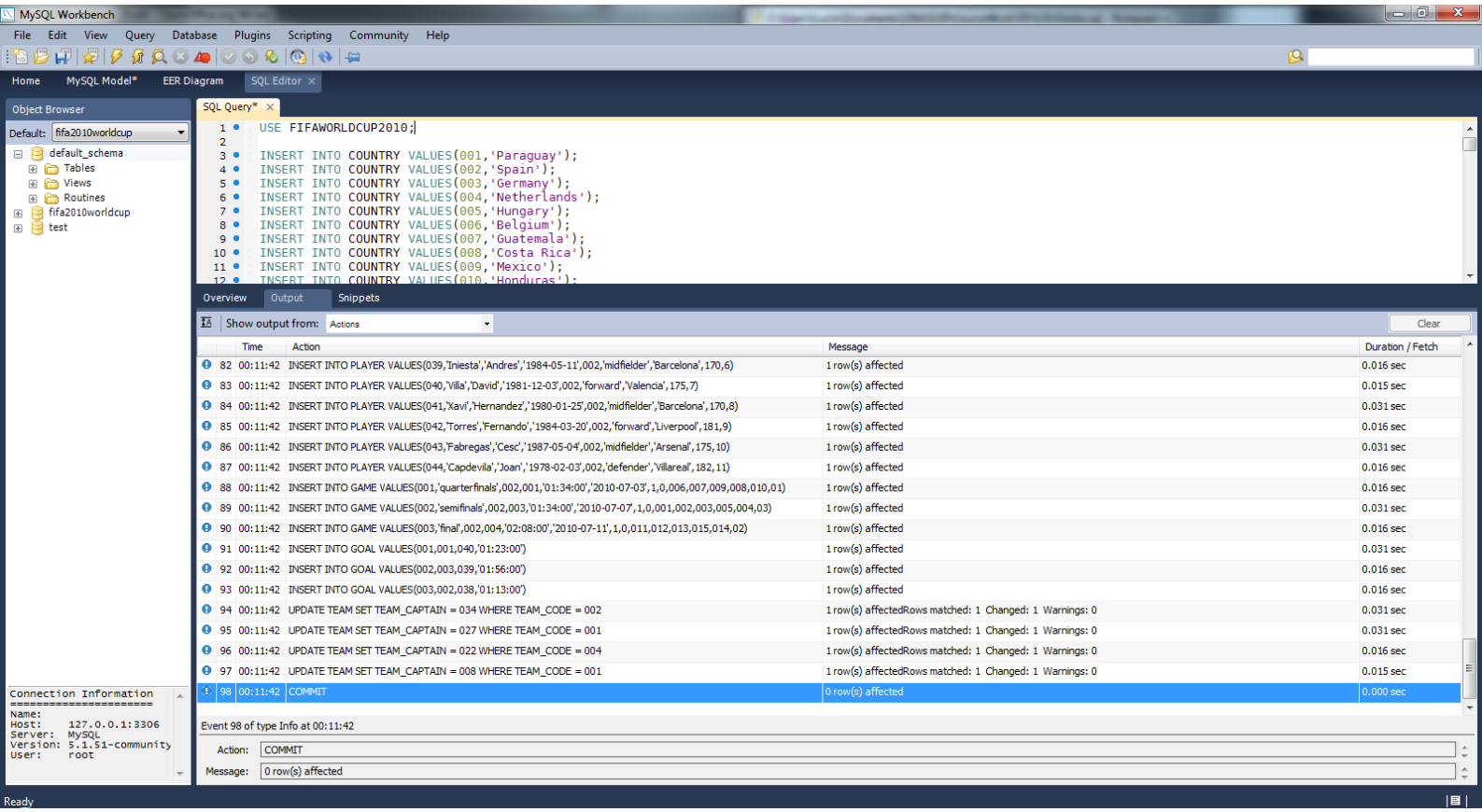
Fetched 2 records, inserted 2

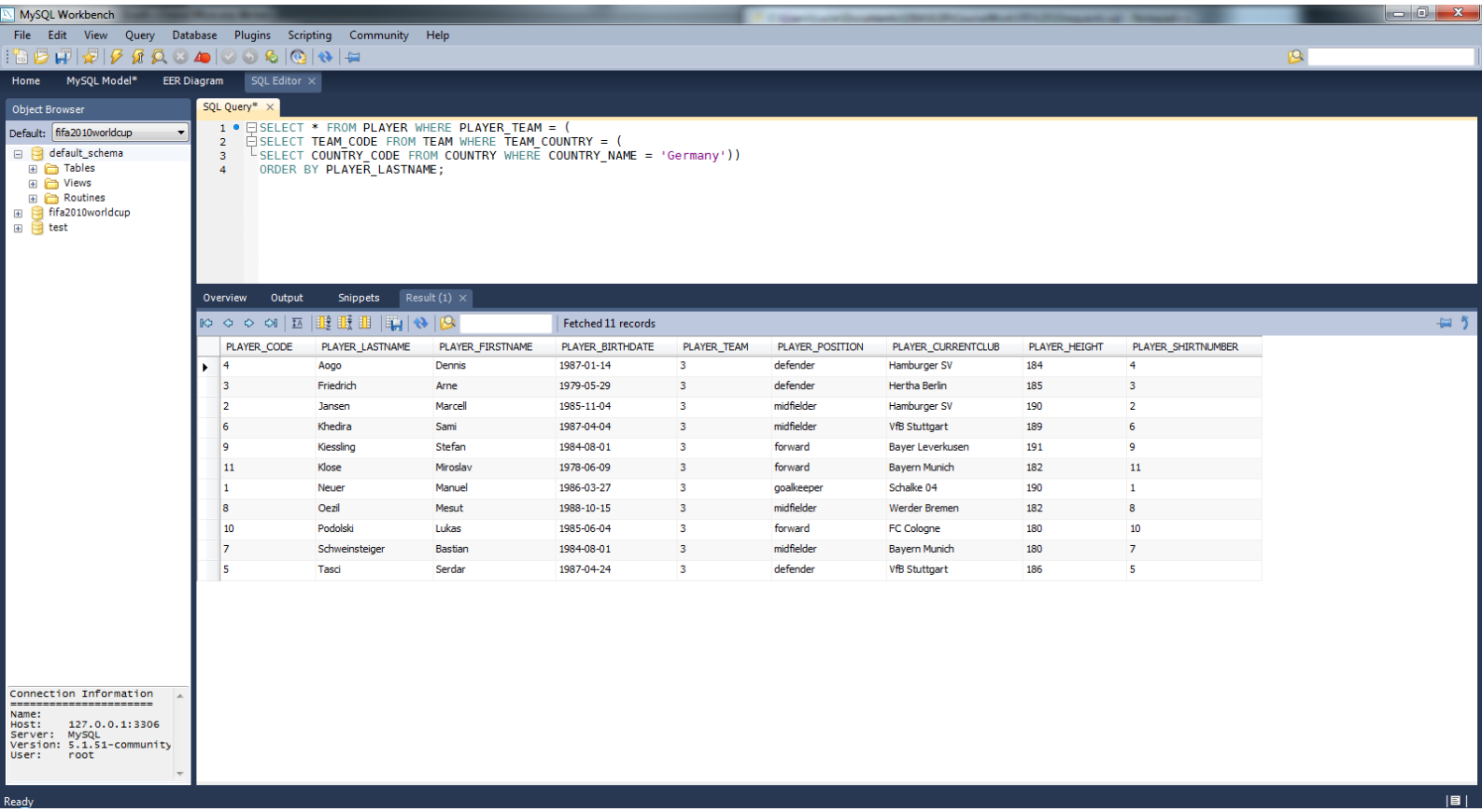
PLAYER_CODE	PLAYER_LASTNAME	PLAYER_FIRSTNAME	PLAYER_BIRTHDATE	PLAYER_TEAM	PLAYER_POSITION	PLAYER_CURRENTCLUB	PLAYER_HEIGHT	PLAYER_SHIRTNUMBER
002	Van Persie	Robin	1983-08-06	004	forward	Bayern Munich	180	11
001	Torres	Fernando	1984-03-20	002	forward	Liverpool	181	9
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

There are pending changes. Please commit or rollback first.

Table | Columns | Indexes | Foreign Keys | Triggers | Partitioning | Options | Inserts | Privileges




MySQL Workbench
File Edit View Query Database Plugins Scripting Community Help
Home MySQL Model* EER Diagram SQL Editor
Object Browser
Default: fifa2010worldcup
default_schema
Tables
Views
Routines
fifa2010worldcup
test
SQL Query*
USE FIFAWORLDCUP2010;
INSERT INTO COUNTRY VALUES(001,'Paraguay');
INSERT INTO COUNTRY VALUES(002,'Spain');
INSERT INTO COUNTRY VALUES(003,'Germany');
INSERT INTO COUNTRY VALUES(004,'Netherlands');
INSERT INTO COUNTRY VALUES(005,'Hungary');
INSERT INTO COUNTRY VALUES(006,'Belgium');
INSERT INTO COUNTRY VALUES(007,'Guatemala');
INSERT INTO COUNTRY VALUES(008,'Costa Rica');
INSERT INTO COUNTRY VALUES(009,'Mexico');
Overview Output Snippets
Show output from: Actions
Clear
Time Action Message Duration / Fetch
82 00:11:42 INSERT INTO PLAYER VALUES(039,'Iniesta','Andres','1984-05-11',002,'midfielder','Barcelona',170,6) 1 row(s) affected 0.016 sec
83 00:11:42 INSERT INTO PLAYER VALUES(040,'Villa','David','1981-12-03',002,'forward','Valencia',175,7) 1 row(s) affected 0.015 sec
84 00:11:42 INSERT INTO PLAYER VALUES(041,'Xavi','Hernandez','1980-01-25',002,'midfielder','Barcelona',170,8) 1 row(s) affected 0.031 sec
85 00:11:42 INSERT INTO PLAYER VALUES(042,'Torres','Fernando','1984-03-20',002,'forward','Liverpool',181,9) 1 row(s) affected 0.016 sec
86 00:11:42 INSERT INTO PLAYER VALUES(043,'Fabregas','Cesc','1987-05-04',002,'midfielder','Arsenal',175,10) 1 row(s) affected 0.031 sec
87 00:11:42 INSERT INTO PLAYER VALUES(044,'Capdevila','Joan','1978-02-03',002,'defender','Villareal',182,11) 1 row(s) affected 0.016 sec
88 00:11:42 INSERT INTO GAME VALUES(001,'quarterfinals',002,001,'01:34:00','2010-07-03',1,0,006,007,009,008,010,01) 1 row(s) affected 0.016 sec
89 00:11:42 INSERT INTO GAME VALUES(002,'semifinals',002,003,'01:34:00','2010-07-07',1,0,001,002,003,005,004,03) 1 row(s) affected 0.031 sec
90 00:11:42 INSERT INTO GAME VALUES(003,'final',002,004,'02:08:00','2010-07-11',1,0,011,012,013,015,014,02) 1 row(s) affected 0.016 sec
91 00:11:42 INSERT INTO GOAL VALUES(001,001,040,'01:23:00') 1 row(s) affected 0.031 sec
92 00:11:42 INSERT INTO GOAL VALUES(002,003,039,'01:56:00') 1 row(s) affected 0.016 sec
93 00:11:42 INSERT INTO GOAL VALUES(003,002,038,'01:13:00') 1 row(s) affected 0.016 sec
94 00:11:42 UPDATE TEAM SET TEAM_CAPTAIN = 034 WHERE TEAM_CODE = 002 1 row(s) affectedRows matched: 1 Changed: 1 Warnings: 0 0.031 sec
95 00:11:42 UPDATE TEAM SET TEAM_CAPTAIN = 027 WHERE TEAM_CODE = 001 1 row(s) affectedRows matched: 1 Changed: 1 Warnings: 0 0.031 sec
96 00:11:42 UPDATE TEAM SET TEAM_CAPTAIN = 022 WHERE TEAM_CODE = 004 1 row(s) affectedRows matched: 1 Changed: 1 Warnings: 0 0.016 sec
97 00:11:42 UPDATE TEAM SET TEAM_CAPTAIN = 008 WHERE TEAM_CODE = 001 1 row(s) affectedRows matched: 1 Changed: 1 Warnings: 0 0.015 sec
98 00:11:42 COMMIT 0 row(s) affected 0.000 sec
Event 98 of type Info at 00:11:42
Action: COMMIT
Message: 0 row(s) affected
Connection Information
Name:
Host: 127.0.0.1:3306
Server: MySQL
Version: 5.1.51-community
User: root
Ready


MySQL Workbench
File Edit View Query Database Plugins Scripting Community Help
Home MySQL Model* EER Diagram SQL Editor
Object Browser
Default: fifa2010worldcup
default_schema
Tables
Views
Routines
fifa2010worldcup
test
SQL Query*
SELECT * FROM PLAYER WHERE PLAYER_TEAM = (
SELECT TEAM_CODE FROM TEAM WHERE TEAM_COUNTRY = (
SELECT COUNTRY_CODE FROM COUNTRY WHERE COUNTRY_NAME = 'Germany'))
ORDER BY PLAYER_LASTNAME;
Overview Output Snippets Result (1)
Fetched 11 records
PLAYER_CODE PLAYER_LASTNAME PLAYER_FIRSTNAME PLAYER_BIRTHDATE PLAYER_TEAM PLAYER_POSITION PLAYER_CURRENTCLUB PLAYER_HEIGHT PLAYER_SHIRTNUMBER
4 Aogo Dennis 1987-01-14 3 defender Hamburger SV 184 4
3 Friedrich Arne 1979-05-29 3 defender Hertha Berlin 185 3
2 Jansen Marcell 1985-11-04 3 midfielder Hamburger SV 190 2
6 Khedira Sami 1987-04-04 3 midfielder VfB Stuttgart 189 6
9 Kiessling Stefan 1984-08-01 3 forward Bayer Leverkusen 191 9
11 Klose Miroslav 1978-06-09 3 forward Bayern Munich 182 11
1 Neuer Manuel 1986-03-27 3 goalkeeper Schalke 04 190 1
8 Oezil Mesut 1988-10-15 3 midfielder Werder Bremen 182 8
10 Podolski Lukas 1985-06-04 3 forward FC Cologne 180 10
7 Schweinsteiger Bastian 1984-08-01 3 midfielder Bayern Munich 180 7
5 Tasci Serdar 1987-04-24 3 defender VfB Stuttgart 186 5
Connection Information
Name:
Host: 127.0.0.1:3306
Server: MySQL
Version: 5.1.51-community
User: root
Ready