Members: Jason Lin, Haopei Wang, Chun-Chan Cheng, Chan-Chih Hsu

In this project we have decided to make a database of a sports team, specifically for a basketball team. The model is mostly based on an the features of an NBA team. The focus of a basketball team database is the team itself. A team is the most important entity of the E/R diagram. In the NBATeam entity, it includes the attribute conference and the key attribute teamName.

In a basketball team database, people usually would like to query the followings:

a) *Games the NBA team has played through the season or the team history.*
b) *The owner or people that own the teams, including the management team.*
c) *The coaching staff on a team.*
d) *Team statistics of the team history.*
e) *Last of all, the NBA players that play on the team.*

We will discuss the entity in order in the following.

a) In the NBAGame entity set we included the attributes of homeTeam, date, awayTeam, and score. The first two attributes are the keys for the entity set. We chose date and homeTeam as key attribute due to the fact that most Home Teams keep the records of the games that was played on there court.

b) Owners and management team are always one of the most important aspect of a team. This is the reason that we included it into the database. In this entity, Owner, we have ownerName, companyName, and type as the attributes. The ownerName is the key attribute for this entity set. The type attribute is to distinguish the different role of the management team from general manager to scouts.

c) Coaching staff are another important aspect of the team. A good coaching staff can bring a team to their best status, while a mediocre coaching staff can ruin a team. We included coachName, type, previousPosition, and experience as the attributes in this entity set, while taking coachName and type together as the key attribute. The type attribute is the role that the particular coaching staff has on the team. This may include the head coach, assistant coach, trainers, or any other staffs that may be on the team. The previousPosition is the attribute that records the previous coaching role the person was. This attribute is important because people may want to know the work they have been doing before the became the staff here. The experience attribute shows the years that the staff has worked on this expertise.

d) The entity teamStatistics has the attributes of year and record. This is a weak entity, since we do not have attribute(s) that can differentiate the members of the entity set. So we need the key of NBATeam which is teamName and the year attribute of teamStatistics to form the key attribute.

e) Last but not least, the NBAPlayer entity set which is the most sophisticated schema. The NBAPlayer entity set includes the attributes playerName, jerseyNo, birthDate, Height, Weight, nationality and education. The keys of this entity set is composed by playerName, jerseyNo, and birthDate. The education attribute shows the University or the last level of school the player previously attended. If the player is an international player, then it will show the nationality of the player in the nationality attribute. The NBAPlayer entity set has two other relationship with two other entity set, one of them is the sportCompany that the player endorses and the other one is playerStatistics. In the sportCompany entity set, the attributes are phoneNo, headquarter, companyName, and companyNo that they have registered. The companyNo is the key attribute for the entity set. The playerStatistics has the basic attributes that people would want to query, this includes Points per game (PPG), Rebounds per game (RPG), Assists per game (APG), Blocks per game (BPG), Steals per game (SPG), and the year that the users wants to query. Since this is a weak entity, the NBAPlayer entity set's key and the Year attribute of playerStatistics forms the key attribute for playerStatistics.

Most of the basic information are included in this database and hopefully the informations are all in a precise hierarchy order.

Schemes for all Relations in Our Database

Finally, we conclude 9 schemas in our database system:

1. **NBATeam (*teamName*, *conference*);**
2. **teamStatistics (*teamName*, *year*, *record*);**
3. **NBAPlayer (*playerName*, *jerseyNo*, *birthDate*, *height*, *weight*, *education*, salary, *teamName*, *companyNo*);**
4. **playerStatistics (*playerName*, *jerseyNo*, *birthDate*, *year*, *APG*, *BPG*, *RPG*, *SPG*, *PPG*);**
5. **sportCompany (*companyNo*, *companyName*, *headquarter*, *phoneNo*);**
6. **NBAGame (*date*, *homeTeam*, *awayTeam*, *score*);**
7. **teamCoach (*coachName*, *teamName*, *salary*, *type*, *experience*, *previousPosition*);**
8. **Owner (*ownerName*, *teamName*, *company*, *type*);**

The reasoning steps are as follows:

1: For entity set “NBATeam”:

NBATeam (*teamName*, *conference*);

2: For entity set “teamStatistics” and relationship “Has”:

Since “teamStatistics” is a weak entity, and have a many-one supporting relationship “Has” to entity set “NBATeam”. Thus, the relation schema of “teamStatistics” should include the key of “NBATeam”, and the supporting relation “Has” itself is not necessary to convert into a schema. That is,

teamStatistics (*teamName*, *year*, *record*);

3: For entity set “NBAPlayer”:

NBAPlayer (*playerName*, *jerseyNo*, *birthDate*, *height*, *weight*, *education*);

4: For relation “Contract”

Contract (*teamName*, *playerName*, *jerseyNo*, *birthDate*, salary)

Because the relation “Contract” is a many-one relationship from “NBAPlayer” to “NBATeam”, it’s better to combine relation “NBAPlayer” and “Contract” into one relation. That is, NBAPlayer (*playerName*, *jerseyNo*, *birthDate*, *height*, *weight*, *education*, salary, *teamName*);

5: For entity set “sportCompany”:

sportCompany (*companyNo*, *companyName*, *headquarter*, *phoneNo*);

6: For relation “Endorsement”

Endorsement (*playerName*, *jerseyNo*, *birthdate*, *companyNo*);

Because the relation “Endorsement” is a many-one relationship from “NBAPlayer” to “sportCompany”, it’s better to combine relation “NBAPlayer” and “Endorsement” into one relation. That is,

NBAPlayer (*playerName*, *jerseyNo*, *birthDate*, *height*, *weight*, *education*, salary, *teamName*, *companyNo*);

7: For entity set “playerStatistics” and relationship “Has”:

Since “playerStatistics” is a weak entity, and have a many-one supporting relationship “Has” to entity set “NBAPlayer”. Thus, the relation schema of “playerStatistics” should include the key of “NBAPlayer”, and the supporting relation “Has” itself is not necessary to convert into a schema. That is,

playerStatistics (*playerName*, *jerseyNo*, *birthDate*, *year*, *APG*, *BPG*, *RPG*, *SPG*, *PPG*);

8: For entity set “teamStatistics” and relationship “Has”:

Since “teamStatistics” is a weak entity, and have a many-to-one supporting relationship “Has” to entity set “NBATeam”. Thus, the relation schema of “teamStatistics” should include the key of “NBATeam”, and the supporting relationship “Has” itself is not necessary to convert into relational schema.

teamStatistics (*teamName*, *year*, *record*);

9: For entity set “NBAGame”:

NBAGame (*date*, *homeTeam*, *awayTeam*, *score*);

10: For entity set “Coach”:

Coach (*coachName*, *type*, *experience*, *previousPosition*);

11: For relation "Works-for"

Works-for (*coachName*, *teamName*, *salary*)

Because the relation "Works-for" is a many-one relationship from "Coach" to "NBATeam", it's better to combine relation "Coach" and "Works-for" into one relation. That is,

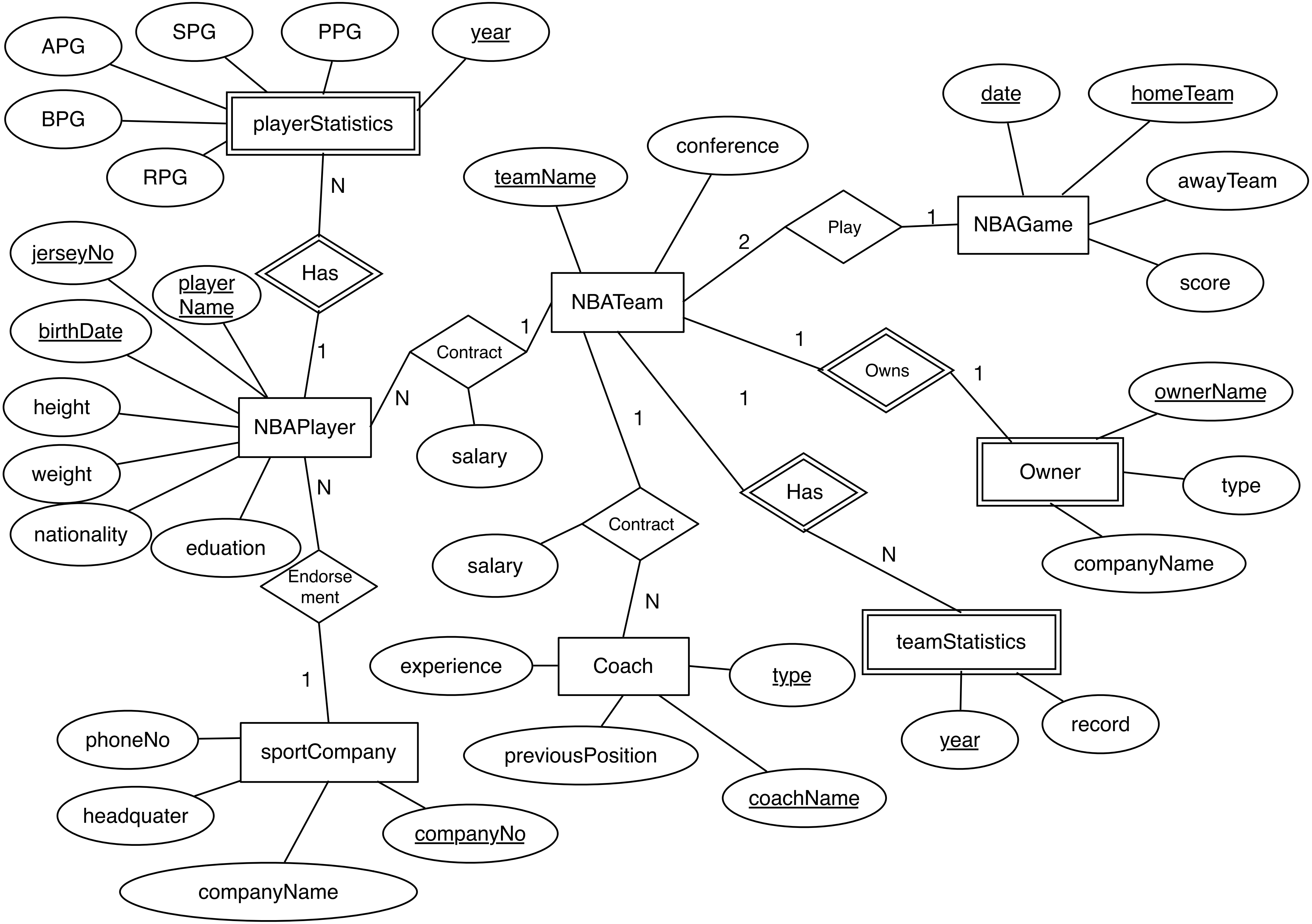
teamCoach (*coachName*, *teamName*, *salary*, *type*, *experience*, *previousPosition*);

12: For entity set "Owner":

Owner (*ownerName*, *company*, *type*);

Since "Owner" is a weak entity, and have a many-one supporting relationship "Owns" to entity set "NBATeam". Thus, the relation schema of "Owner" should include the key of "NBATeam", and the supporting relation "Owns" itself is not necessary to convert into a schema. That is,

Owner (*ownerName*, *teamName*, *company*, *type*);


APG
SPG
PPG
year
BPG
playerStatistics
RPG
N
Has
1
jerseyNo
player Name
birthDate
height
NBAPlayer
weight
nationality
eduation
N
Endorse ment
1
phoneNo
sportCompany
headquater
companyNo
companyName
Contract
N
1
salary
teamName
conference
NBATeam
2
Play
1
NBAGame
date
homeTeam
awayTeam
score
1
Owns
1
ownerName
Owner
type
companyName
1
1
Has
N
teamStatistics
year
record
Contract
salary
N
Coach
experience
type
previousPosition
coachName

Nontrivial Functional Dependencies

1. NBAGame (*date*, *homeTeam*, *awayTeam*, *score*)

FD: {*data*, *homeTeam* → *awayTeam*, *score*}

This schema is already in BCNF and 4NF

2. Owner (*ownerName*, *teamName*, *company*, *type*)

FD: {*ownerName*, *teamName* → *company*, *type*}

This schema is already in BCNF and 4NF

3. teamCoach (*coachName*, *teamName*, *salary*, *type*, *experience*, *previousPosition*)

FD: {*coachName*, *teamName* → *salary*, *type*, *experience*, *previousPosition*}

This schema is already in BCNF and 4NF

4. teamStatistics (*teamName*, *year*, *record*)

FD: {*teamName*, *year* → *record*}

This schema is already in BCNF and 4NF

5. NBAPlayer (*jerseyNo*, *playerName*, *birthDate*, *height*, *weight*, *education*, *salary*, *teamName*, *companyNo*)

FD: {*jerseyNo*, *playerName*, *birthDate* → *height*, *weight*, *education*, *salary*, *teamName*, *companyNo* }

This schema is already in BCNF and 4NF

6. NBATeam (*teamName*, *conference*)

FD: {*teamName* → *conference*}

This schema is already in BCNF and 4NF

7. playerStatistics (*playerName*, *jerseyNo*, *birthDate*, *year*, *APG*, *BPG*, *RPG*, *SPG*, *PPG*)

FD: {*playerName, jerseyNo, birthdate, year* → *APG, BPG, RPG, PPG, SPG*}

This schema is already in BCNF and 4NF

8. sportCompany (*companyNo*, *phoneNo*, *headquater*, *companyName*)

FD: {*companyNo* → *phoneNo, headquater, companyName*}

This schema is already in BCNF and 4NF

Explanation for Java code and embedded SQL

This Java embedded SQL code includes several classes: ‘connectJDBC’, ‘main’, ‘query’, and ‘update’. The official database (namely, ‘cccheng-project’) we used for demonstration is on Cheng’s laptop (MacBook). The Java code can be opened by importing the project ‘tamu.databaseproject’ via the IDE eclipse. Open code ‘main.java’ and choose to run as Java application to begin our database system menu.

1. The startup codes

Class ‘main’ is the main structure of this code. It activates the database by executing the connector from Java to MySQL via JDBC. The username and password for MySQL is default as ‘root’ and ‘project’, respectively. Since we use Cheng’s laptop (MacBook) for formal demonstration, the database is name as ‘cccheng-project’. Therefore, the connector will assign to use database ‘cccheng-project’ for further actions. In windows system, the ‘localhost’ in url part should be ‘127.0.0.1:3306’ instead. When program starts, the main menu will show up on the console (screen) and ask the user to choose the following modes: 1. Query; 2. Update; 0. Exit. A new object of class ‘query’ or ‘update’ will then be established when the user selects in the corresponding mode: ‘Query’ or ‘Update’. The constructor on either class ‘query’ or ‘update’ is to print out a message on screen to show which section the user are currently in: general query or data modification?

2. The function codes

In ‘query’ class, the whole procedure will execute by a method call ‘start’. We first run the query “SELECT TABLE_NAME FROM INFORMATION_SCHEMA.TABLES WHERE TABLE_TYPE = 'BASE TABLE' AND TABLE_SCHEMA = 'cccheng-project'” by using the class ‘connectJDBC’ to declare a statement in order to use the method ‘executeQuery’ to interpret the SQL script. This will show the table list of databases 'cccheng-project'. Then, we can follow the steps specified in pdf file ‘captured-screen’ to do the query action. User's input will be organized into a string, and we use ‘nextLine’ or ‘nextInt’ to capture the characters type or numerical type of corresponding input answers that valid to respond to the question. Some inputs will be used to combine with the query statement in order to retrieve the results with respect to the user’s inputs. For instance, the query will ask the user to type in the attributes they want to see and the condition they want to select the attributes. Java.sql class Statement, ResultSet and ResultSetMetaData achieve the query function of the database. The ‘update’ class is similar to ‘query’ class but just the user's input organization, statement realization is different (i.e., use method ‘executeUpdate’ to trigger the query statement for data modification instead of using method ‘executeQuery’). In addition, the ‘update’ class has defined an extra method ‘insert’ to deal with data insertion.

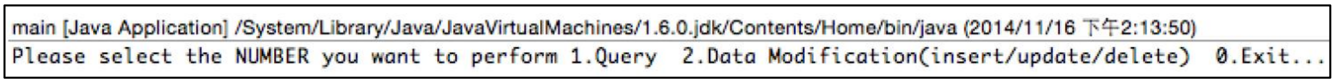
The organization of the whole database system is a WHILE loop on the outside to keep running the program when the user is not decided to leave the program (i.e., input 0 in the main menu to exit). In the inner part, we use IF-ELSE statement for mode selection, and in some levels of questions, the input will be using FOR loop to capture each separate string correctly. Notice that exception may occur in loading to SQL driver, connecting to MySQL server, BufferedWriter input, and execute SQL statement in MySQL database. Therefore, we use ‘try’ and ‘catch’ in these places to catch and handle the potential exceptions.

Database Systems Screen Shot

1. The main menu

We classify all the operations into two parts.

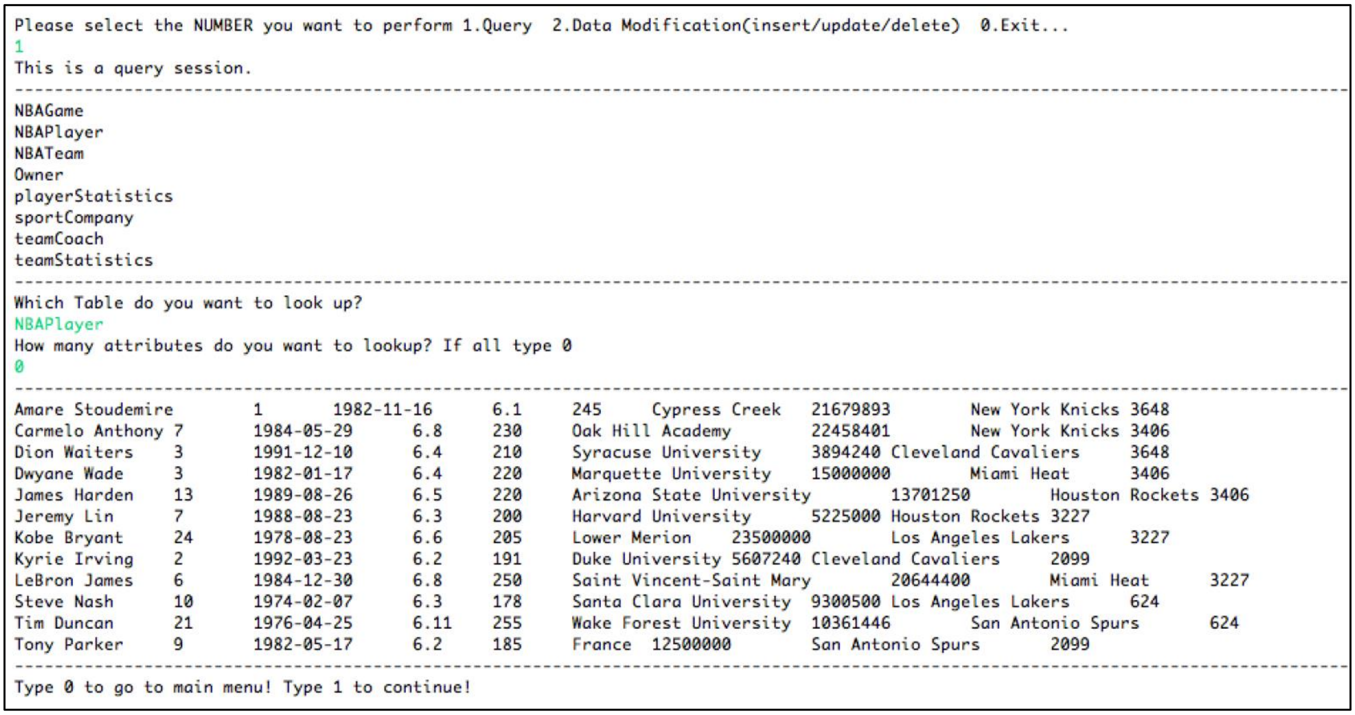
- Query
  In this part, we can query the tables depend on what user want. For example, query the whole table or some attributes of a table.
- Data Modification (insert/update/delete)
  In this part, we can do insert, update, and delete.



```
main [Java Application] /System/Library/Java/JavaVirtualMachines/1.6.0.jdk/Contents/Home/bin/java (2014/11/16 下午2:13:50)
Please select the NUMBER you want to perform 1.Query  2.Data Modification(insert/update/delete)  0.Exit...
```

2. Query a table from database

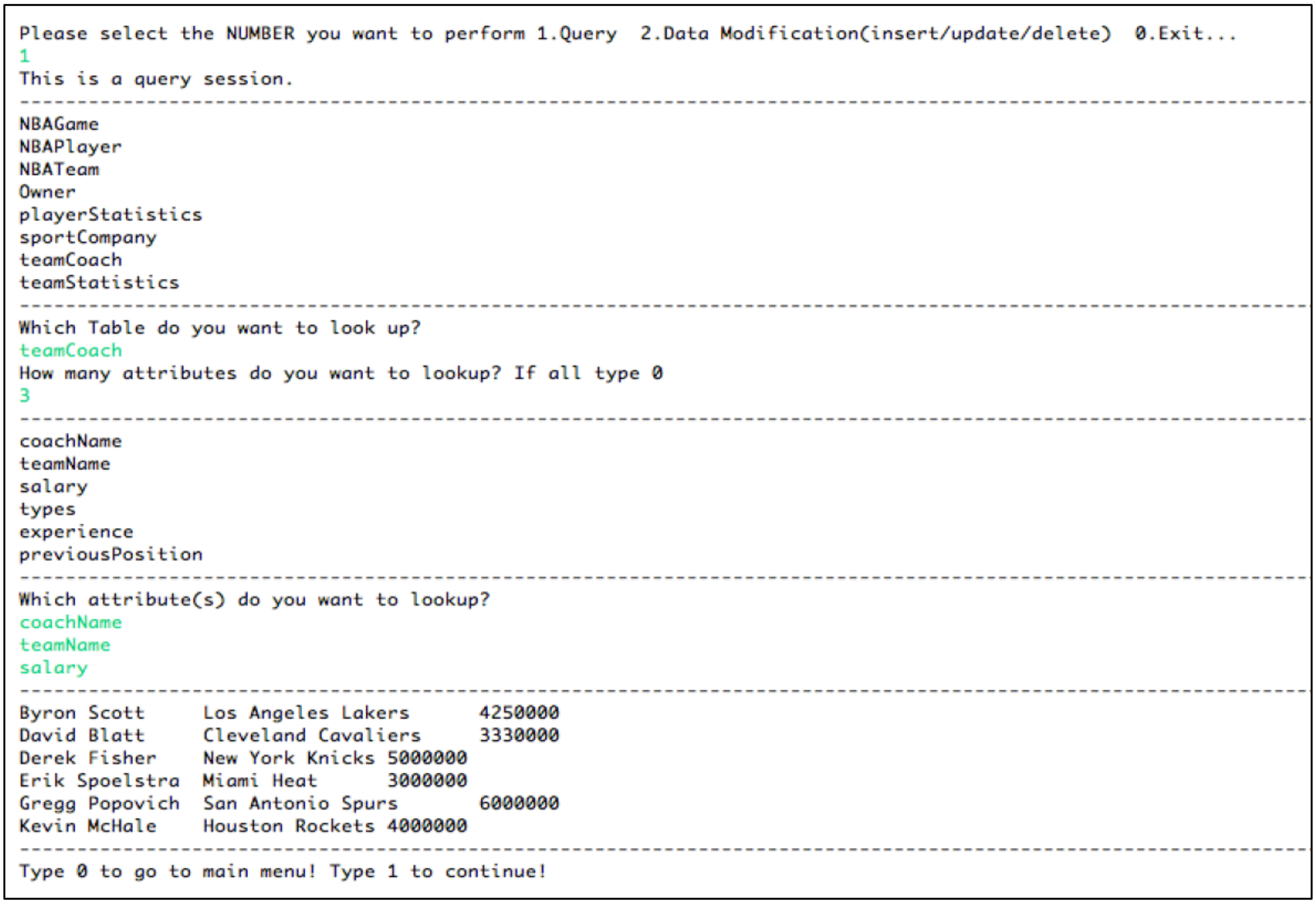
In this example, we query whole NBAPlayer table. First, we choose the table we want to look up. Second, we type 0 to see whole table.



```
Please select the NUMBER you want to perform 1.Query  2.Data Modification(insert/update/delete)  0.Exit...
1
This is a query session.
--------------------------------------------------------------------------------------------------------------------------
NBAGame
NBAPlayer
NBATeam
Owner
playerStatistics
sportCompany
teamCoach
teamStatistics
--------------------------------------------------------------------------------------------------------------------------
Which Table do you want to look up?
NBAPlayer
How many attributes do you want to lookup? If all type 0
0
--------------------------------------------------------------------------------------------------------------------------
Amare Stoudemire        1       1982-11-16      6.1     245     Cypress Creek   21679893        New York Knicks 3648
Carmelo Anthony 7       1984-05-29      6.8     230     Oak Hill Academy        22458401        New York Knicks 3406
Dion Waiters    3       1991-12-10      6.4     210     Syracuse University     3894240 Cleveland Cavaliers     3648
Dwyane Wade     3       1982-01-17      6.4     220     Marquette University    15000000        Miami Heat      3406
James Harden    13      1989-08-26      6.5     220     Arizona State University        13701250        Houston Rockets 3406
Jeremy Lin      7       1988-08-23      6.3     200     Harvard University      5225000 Houston Rockets 3227
Kobe Bryant     24      1978-08-23      6.6     205     Lower Merion    23500000        Los Angeles Lakers      3227
Kyrie Irving    2       1992-03-23      6.2     191     Duke University 5607240 Cleveland Cavaliers     2099
LeBron James    6       1984-12-30      6.8     250     Saint Vincent-Saint Mary        20644400        Miami Heat      3227
Steve Nash      10      1974-02-07      6.3     178     Santa Clara University  9300500 Los Angeles Lakers      624
Tim Duncan      21      1976-04-25      6.11    255     Wake Forest University  10361446        San Antonio Spurs       624
Tony Parker     9       1982-05-17      6.2     185     France  12500000        San Antonio Spurs       2099
--------------------------------------------------------------------------------------------------------------------------
Type 0 to go to main menu! Type 1 to continue!
```

3. Query three attributes of a table from database

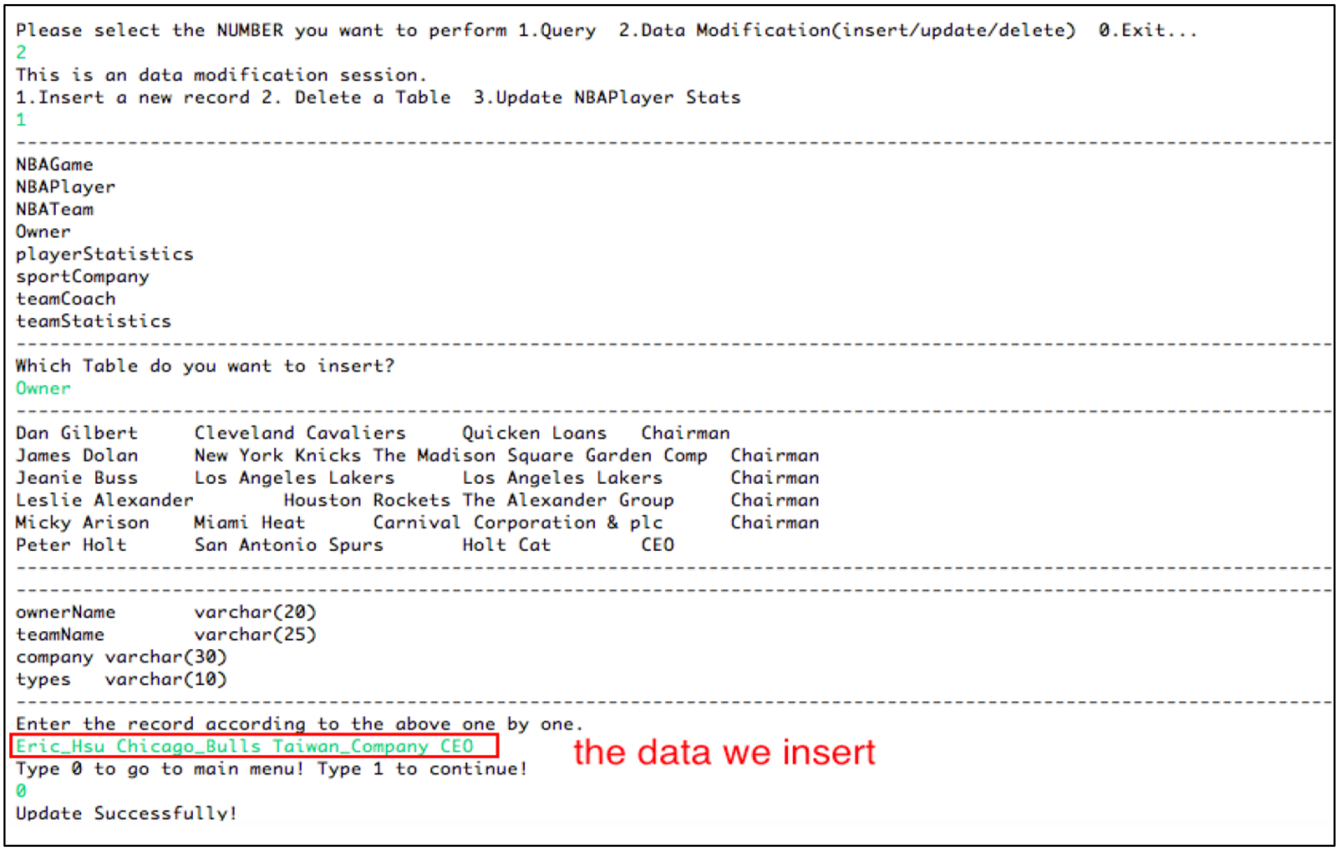
In this example, we query three attributes of teamCoach table. First, we choose the table we want to look up. Second, we type 3 to see three attributes. Third, we type the attributes' name that we want to look up.



```
Please select the NUMBER you want to perform 1.Query  2.Data Modification(insert/update/delete)  0.Exit...
1
This is a query session.
------------------------------------------------------------------------------------------------------------
NBAGame
NBAPlayer
NBATeam
Owner
playerStatistics
sportCompany
teamCoach
teamStatistics
------------------------------------------------------------------------------------------------------------
Which Table do you want to look up?
teamCoach
How many attributes do you want to lookup? If all type 0
3
------------------------------------------------------------------------------------------------------------
coachName
teamName
salary
types
experience
previousPosition
------------------------------------------------------------------------------------------------------------
Which attribute(s) do you want to lookup?
coachName
teamName
salary
------------------------------------------------------------------------------------------------------------
Byron Scott     Los Angeles Lakers      4250000
David Blatt     Cleveland Cavaliers     3330000
Derek Fisher    New York Knicks 5000000
Erik Spoelstra  Miami Heat      3000000
Gregg Popovich  San Antonio Spurs       6000000
Kevin McHale    Houston Rockets 4000000
------------------------------------------------------------------------------------------------------------
Type 0 to go to main menu! Type 1 to continue!
```

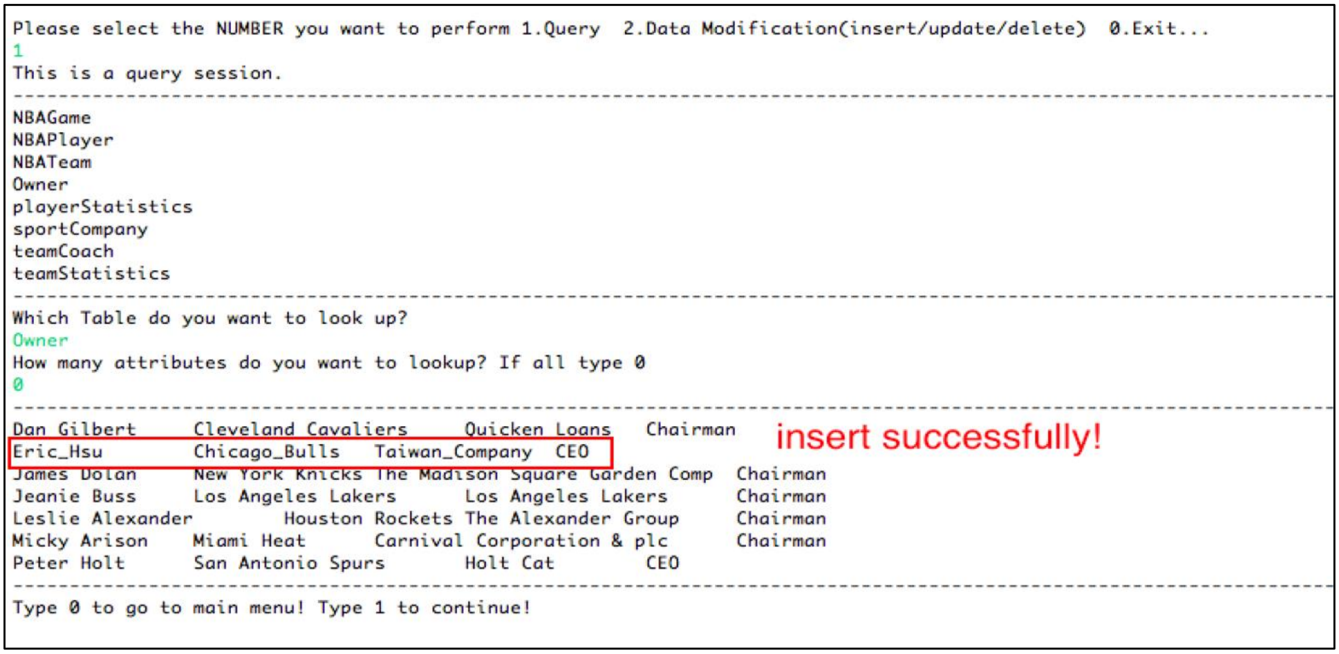
4. Insert a row into a table

In this example, we insert a row into an Owner table. First, we choose the table we want to insert. Second, we insert a row. Third, we go back to menu and query the table to see the result.



```
Please select the NUMBER you want to perform 1.Query  2.Data Modification(insert/update/delete)  0.Exit...
2
This is an data modification session.
1.Insert a new record 2. Delete a Table  3.Update NBAPlayer Stats
1
------------------------------------------------------------------------------------------------------------------------
NBAGame
NBAPlayer
NBATeam
Owner
playerStatistics
sportCompany
teamCoach
teamStatistics
------------------------------------------------------------------------------------------------------------------------
Which Table do you want to insert?
Owner
------------------------------------------------------------------------------------------------------------------------
Dan Gilbert     Cleveland Cavaliers     Quicken Loans   Chairman
James Dolan     New York Knicks The Madison Square Garden Comp  Chairman
Jeanie Buss     Los Angeles Lakers      Los Angeles Lakers      Chairman
Leslie Alexander        Houston Rockets The Alexander Group     Chairman
Micky Arison    Miami Heat      Carnival Corporation & plc      Chairman
Peter Holt      San Antonio Spurs       Holt Cat        CEO
------------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------------
ownerName       varchar(20)
teamName        varchar(25)
company varchar(30)
types   varchar(10)
------------------------------------------------------------------------------------------------------------------------
Enter the record according to the above one by one.
Eric_Hsu Chicago_Bulls Taiwan_Company CEO
Type 0 to go to main menu! Type 1 to continue!
0
Update Successfully!
```

the data we insert

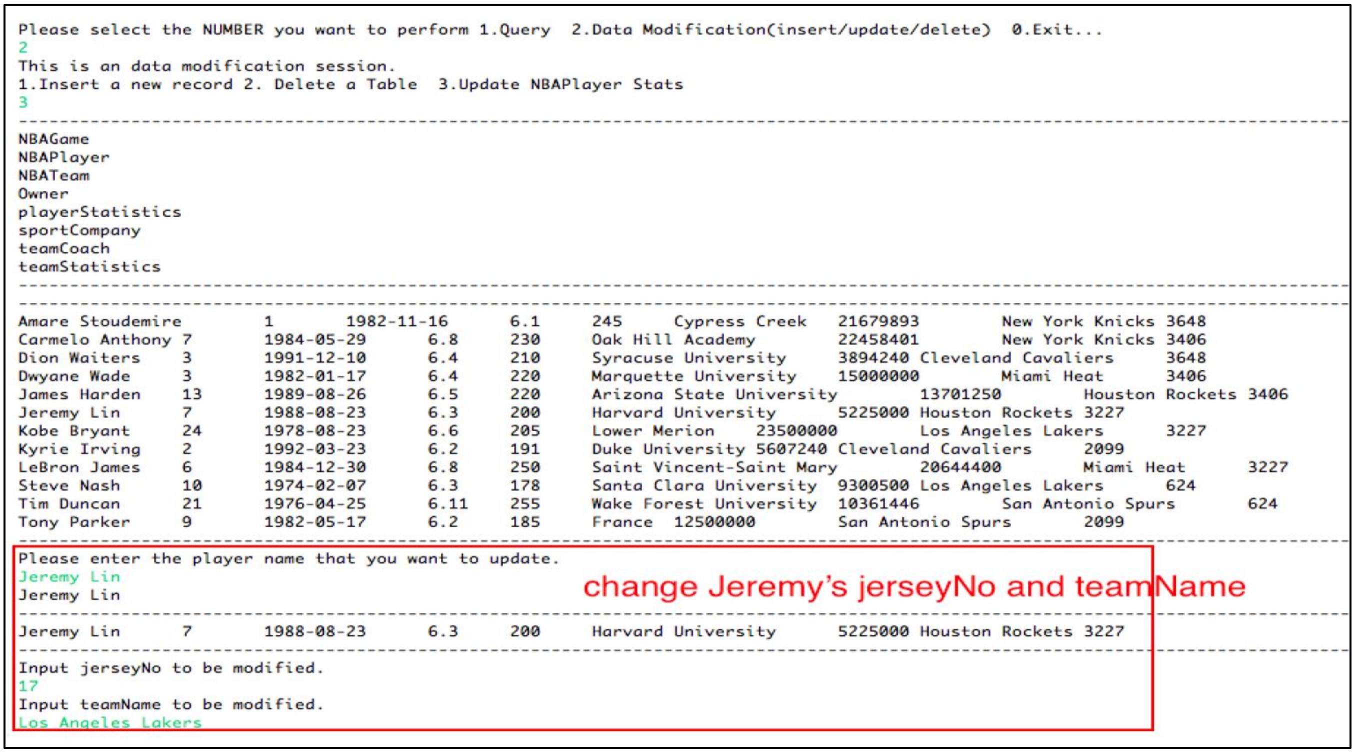


```
Please select the NUMBER you want to perform 1.Query  2.Data Modification(insert/update/delete)  0.Exit...
1
This is a query session.
------------------------------------------------------------------------------------------------------------------------
NBAGame
NBAPlayer
NBATeam
Owner
playerStatistics
sportCompany
teamCoach
teamStatistics
------------------------------------------------------------------------------------------------------------------------
Which Table do you want to look up?
Owner
How many attributes do you want to lookup? If all type 0
0
------------------------------------------------------------------------------------------------------------------------
Dan Gilbert     Cleveland Cavaliers     Quicken Loans   Chairman
Eric_Hsu        Chicago_Bulls   Taiwan_Company  CEO
James Dolan     New York Knicks The Madison Square Garden Comp  Chairman
Jeanie Buss     Los Angeles Lakers      Los Angeles Lakers      Chairman
Leslie Alexander        Houston Rockets The Alexander Group     Chairman
Micky Arison    Miami Heat      Carnival Corporation & plc      Chairman
Peter Holt      San Antonio Spurs       Holt Cat        CEO
------------------------------------------------------------------------------------------------------------------------
Type 0 to go to main menu! Type 1 to continue!
```

insert successfully!

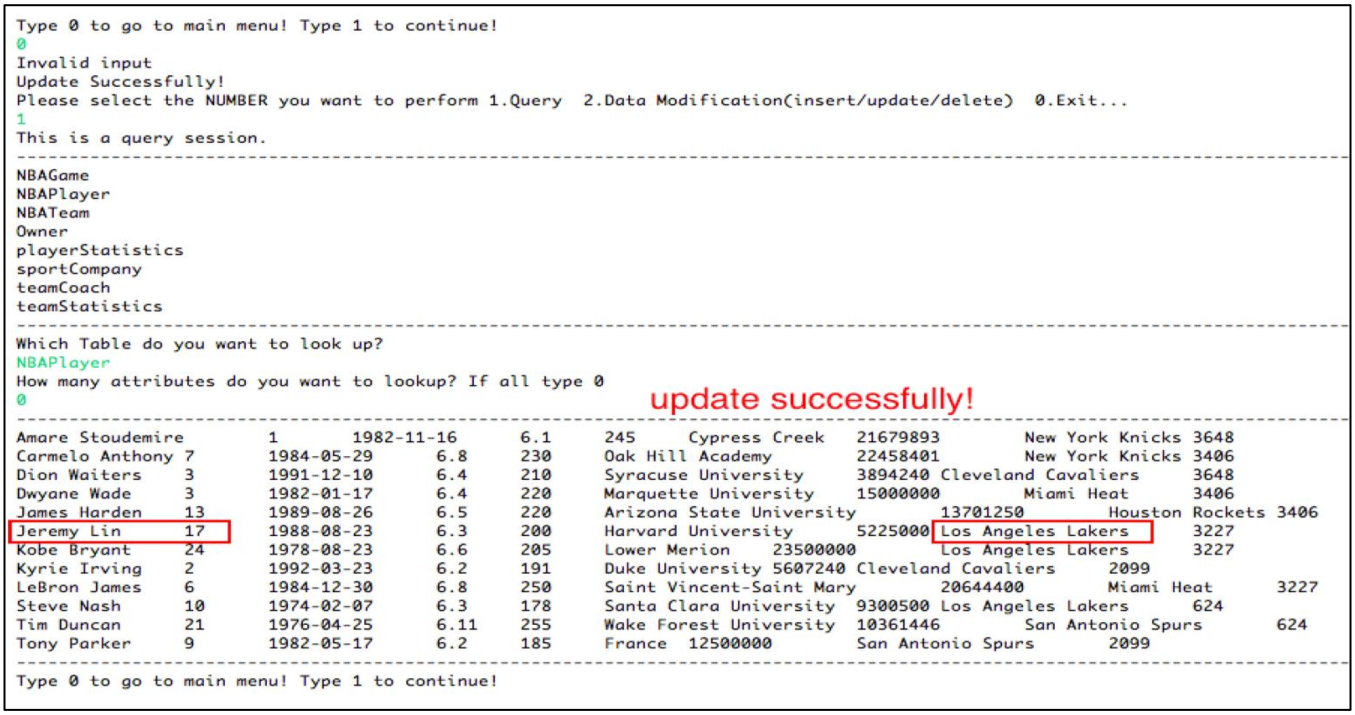
5. Update a row in a table

For the update, we restrict that users can only change players' jerserNo and teamName. In this example, first, we choose the player that we want to update. Second, we update his jerserNo and teamName. Third, we go back to menu and query the table to see the result.



```
Please select the NUMBER you want to perform 1.Query  2.Data Modification(insert/update/delete)  0.Exit...
2
This is an data modification session.
1.Insert a new record 2. Delete a Table  3.Update NBAPlayer Stats
3
------------------------------------------------------------------------------------------------------------------
NBAGame
NBAPlayer
NBATeam
Owner
playerStatistics
sportCompany
teamCoach
teamStatistics
------------------------------------------------------------------------------------------------------------------
------------------------------------------------------------------------------------------------------------------
Amare Stoudemire        1       1982-11-16      6.1     245     Cypress Creek   21679893        New York Knicks 3648
Carmelo Anthony 7       1984-05-29      6.8     230     Oak Hill Academy        22458401        New York Knicks 3406
Dion Waiters    3       1991-12-10      6.4     210     Syracuse University     3894240 Cleveland Cavaliers     3648
Dwyane Wade     3       1982-01-17      6.4     220     Marquette University    15000000        Miami Heat      3406
James Harden    13      1989-08-26      6.5     220     Arizona State University        13701250        Houston Rockets 3406
Jeremy Lin      7       1988-08-23      6.3     200     Harvard University      5225000 Houston Rockets 3227
Kobe Bryant     24      1978-08-23      6.6     205     Lower Merion    23500000        Los Angeles Lakers      3227
Kyrie Irving    2       1992-03-23      6.2     191     Duke University 5607240 Cleveland Cavaliers     2099
LeBron James    6       1984-12-30      6.8     250     Saint Vincent-Saint Mary        20644400        Miami Heat      3227
Steve Nash      10      1974-02-07      6.3     178     Santa Clara University  9300500 Los Angeles Lakers      624
Tim Duncan      21      1976-04-25      6.11    255     Wake Forest University  10361446        San Antonio Spurs       624
Tony Parker     9       1982-05-17      6.2     185     France  12500000        San Antonio Spurs       2099
------------------------------------------------------------------------------------------------------------------
Please enter the player name that you want to update.
Jeremy Lin
Jeremy Lin
------------------------------------------------------------------------------------------------------------------
Jeremy Lin      7       1988-08-23      6.3     200     Harvard University      5225000 Houston Rockets 3227
------------------------------------------------------------------------------------------------------------------
Input jerseyNo to be modified.
17
Input teamName to be modified.
Los Angeles Lakers
```

change Jeremy's jerseyNo and teamName

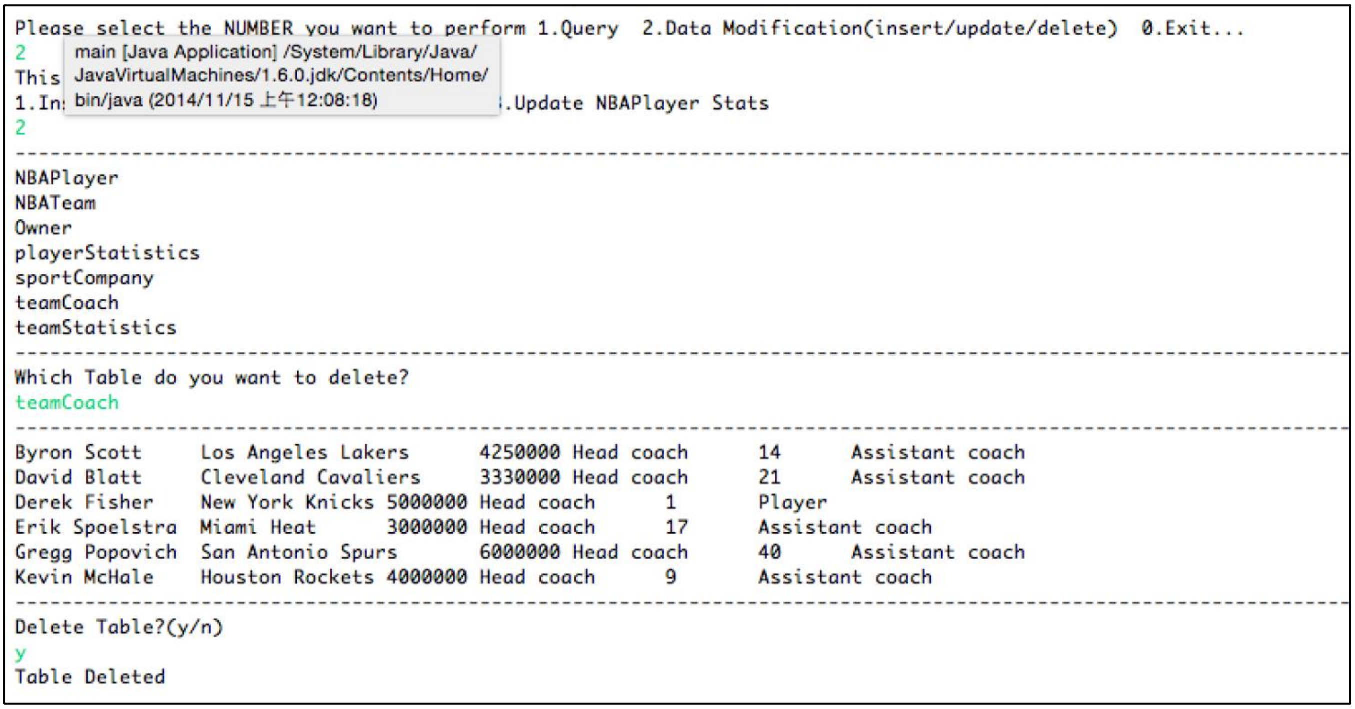


```
Type 0 to go to main menu! Type 1 to continue!
0
Invalid input
Update Successfully!
Please select the NUMBER you want to perform 1.Query  2.Data Modification(insert/update/delete)  0.Exit...
1
This is a query session.
------------------------------------------------------------------------------------------------------------------
NBAGame
NBAPlayer
NBATeam
Owner
playerStatistics
sportCompany
teamCoach
teamStatistics
------------------------------------------------------------------------------------------------------------------
Which Table do you want to look up?
NBAPlayer
How many attributes do you want to lookup? If all type 0
0
------------------------------------------------------------------------------------------------------------------
Amare Stoudemire        1       1982-11-16      6.1     245     Cypress Creek   21679893        New York Knicks 3648
Carmelo Anthony 7       1984-05-29      6.8     230     Oak Hill Academy        22458401        New York Knicks 3406
Dion Waiters    3       1991-12-10      6.4     210     Syracuse University     3894240 Cleveland Cavaliers     3648
Dwyane Wade     3       1982-01-17      6.4     220     Marquette University    15000000        Miami Heat      3406
James Harden    13      1989-08-26      6.5     220     Arizona State University        13701250        Houston Rockets 3406
Jeremy Lin      17      1988-08-23      6.3     200     Harvard University      5225000 Los Angeles Lakers      3227
Kobe Bryant     24      1978-08-23      6.6     205     Lower Merion    23500000        Los Angeles Lakers      3227
Kyrie Irving    2       1992-03-23      6.2     191     Duke University 5607240 Cleveland Cavaliers     2099
LeBron James    6       1984-12-30      6.8     250     Saint Vincent-Saint Mary        20644400        Miami Heat      3227
Steve Nash      10      1974-02-07      6.3     178     Santa Clara University  9300500 Los Angeles Lakers      624
Tim Duncan      21      1976-04-25      6.11    255     Wake Forest University  10361446        San Antonio Spurs       624
Tony Parker     9       1982-05-17      6.2     185     France  12500000        San Antonio Spurs       2099
------------------------------------------------------------------------------------------------------------------
Type 0 to go to main menu! Type 1 to continue!
```

update successfully!

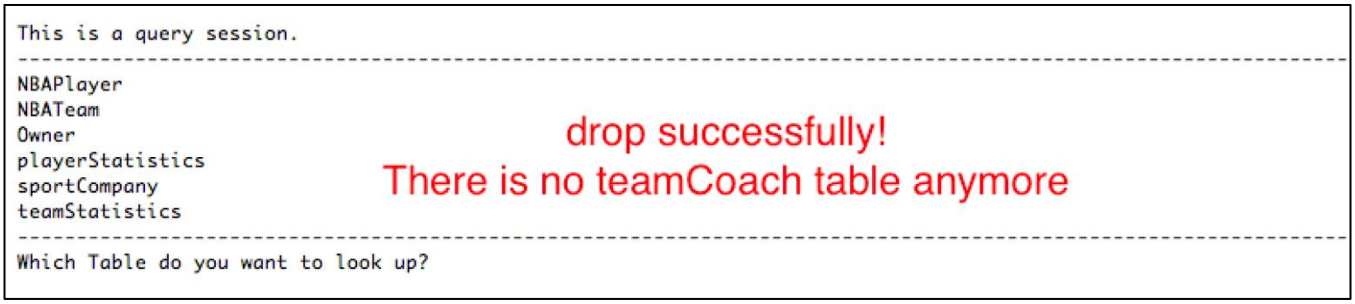
6. Drop a table

In this example, first, we choose teamCoach to drop. Second, we go back to menu and query the table to see the result.



```
Please select the NUMBER you want to perform 1.Query  2.Data Modification(insert/update/delete)  0.Exit...
2
This
1.In                                          .Update NBAPlayer Stats
2
-----------------------------------------------------------------------------------------------------------------
NBAPlayer
NBATeam
Owner
playerStatistics
sportCompany
teamCoach
teamStatistics
-----------------------------------------------------------------------------------------------------------------
Which Table do you want to delete?
teamCoach
-----------------------------------------------------------------------------------------------------------------
Byron Scott     Los Angeles Lakers      4250000 Head coach      14      Assistant coach
David Blatt     Cleveland Cavaliers     3330000 Head coach      21      Assistant coach
Derek Fisher    New York Knicks 5000000 Head coach      1       Player
Erik Spoelstra  Miami Heat      3000000 Head coach      17      Assistant coach
Gregg Popovich  San Antonio Spurs       6000000 Head coach      40      Assistant coach
Kevin McHale    Houston Rockets 4000000 Head coach      9       Assistant coach
-----------------------------------------------------------------------------------------------------------------
Delete Table?(y/n)
y
Table Deleted
```

main [Java Application] /System/Library/Java/
JavaVirtualMachines/1.6.0.jdk/Contents/Home/
bin/java (2014/11/15 上午12:08:18)



```
This is a query session.
-----------------------------------------------------------------------------------------------------------------
NBAPlayer
NBATeam
Owner
playerStatistics
sportCompany
teamStatistics
-----------------------------------------------------------------------------------------------------------------
Which Table do you want to look up?
```

drop successfully!
There is no teamCoach table anymore