Q2 Stored Procedure (Bonus with Java – Written in another Language)

This JAVA file can be found in the compressed folder as follows:

```
Q2 bonus and Q3 full.zip > COMP-421 > src > CleanDatabase.java
```

Please refer to README for how to set up Eclipse to work with DB2 License.

Demonstration:

1. Creation of Stored Procedure

We can query the routines to show that the procedure *actually* gets created via:

```
SELECT * FROM syscat.routinedep WHERE ROUTINESCHEMA = 'JMCCOR6'
```

Before:

Then we run the first option, to create the procedure:

And we call the query again to see that we did in fact create the procedure.

```
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------------------
JMCCOR6
                              SQL130319122456400

            K      JMCCOR6
                                                     P224564
1
                              0 SQL130319122456400

  1 record(s) selected.

db2 =>
```

2. Cleaning of Season

Let's see what teams we have in our season:

```
select * from season
```



```
db2 => select * from season

SYEAR        SPORT                          LLEVEL REGDEADLINE MAXTEAMS
----------- ------------------------------ ------ ----------- -----------
       2012 Ice Hockey                     MC     09/03/2012           26
       2011 Ice Hockey                     MC     08/31/2011           26
       2012 Ice Hockey                     CRD    09/03/2012           16
       2011 Ice Hockey                     CRD    08/31/2012           16
       2013 2v2 Soccer                     MB     02/21/2013           24
       2012 2v2 Soccer                     MB     01/30/2012           24
       2013 2v2 Soccer                     CRA    02/21/2013           24
       2013 2v2 Soccer                     WB     02/21/2013           24
       2013 Innertube Water Polo           CRB    12/17/2012           20
       2012 Innertube Water Polo           CRB    12/08/2011           20
       2011 Innertube Water Polo           CRB    12/06/2010           20
       2013 Indoor Soccer                  WB     01/05/2013           30
       2013 Innertube Water Polo           CRA    12/17/2012           20

  13 record(s) selected.

db2 =>
```

And now we run our cleaning command:


```
Problems  @ Javadoc  Declaration  Console

CleanDatabase [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (2013-03-19 12:36:37 PM
        To be run after the deadline.
3 - Call procedure on SEASON
        Cleans all seasons where the registration deadline
        has passed but there are still less than 4 teams registered.
4 - Drop Procedure
5 - Exit Application
===================================
Make your selection: 3
Stored procedure called on season successfully.

Welcome to JAM Sports and Rec.
Database cleaning system
===================================
1 - Create procedure
2 - Call procedure on TEAM
        All teams where there are fewer players than the minimum are dele
        To be run after the deadline.
3 - Call procedure on SEASON
```

And now we run the select again to see that queries were deleted

```
       2013 2v2 Soccer                         CRA    02/21/2013         24
       2013 2v2 Soccer                         WB     02/21/2013         24
       2013 Innertube Water Polo               CRB    12/17/2012         20
       2012 Innertube Water Polo               CRB    12/08/2011         20
       2011 Innertube Water Polo               CRB    12/06/2010         20
       2013 Indoor Soccer                      WB     01/05/2013         30
       2013 Innertube Water Polo               CRA    12/17/2012         20

  13 record(s) selected.

db2 => select * from season

SYEAR       SPORT                        LLEVEL REGDEADLINE MAXTEAMS
----------- ---------------------------- ------ ----------- -----------
       2013 2v2 Soccer                         CRA    02/21/2013         24

  1 record(s) selected.

db2 =>
```
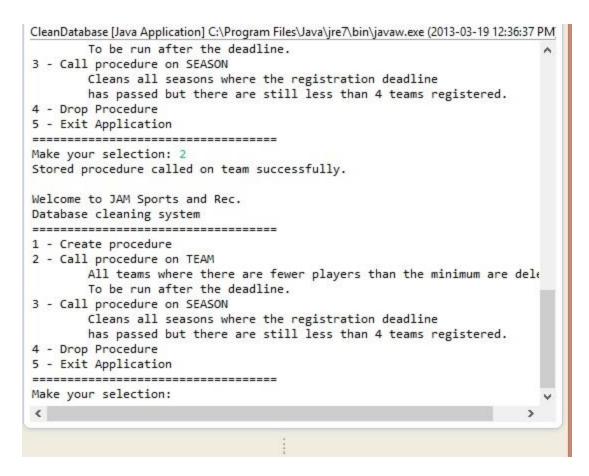
3. Cleaning of Team

Let's see what teams we have in our team

```
                          select * from team
```

```
                        db2.cs.mcgill.ca - PuTTY

db2 =>
DB20000I  The SQL command completed successfully.
db2 =>
db2 =>
db2 =>
db2 =>
db2 =>
db2 =>
db2 => select * teams
SQL0104N  An unexpected token "teams" was found following "select * ".
Expected tokens may include:  "<from>".   SQLSTATE=42601
db2 => select * from team

NAME                           SYEAR       SPORT                        LLEVEL
------------------------------ ----------- ---------------------------- ------
Goon Squad                            2012 Ice Hockey                   MC
Cool Runnings                         2012 Ice Hockey                   MC
Cool Runnings                         2011 Ice Hockey                   MC
Thunderhawks                          2012 Ice Hockey                   CRD
Icetosterone                          2011 Ice Hockey                   CRD
Far Post                              2013 2v2 Soccer                   MB
Far Post                              2012 2v2 Soccer                   MB
Pretty in Pink                        2012 2v2 Soccer                   MB
Bar Down                              2013 2v2 Soccer                   CRA
Class and Pizzaz                      2013 2v2 Soccer                   CRA
Soccer Chicks                         2013 2v2 Soccer                   WB
Marco Pullouts                        2013 Innertube Water Polo         CRB
Marco Pullouts                        2012 Innertube Water Polo         CRB
Marco Pullouts                        2011 Innertube Water Polo         CRB
In The Hole                           2013 Innertube Water Polo         CRB
Class and Pizzaz                      2013 Innertube Water Polo         CRB
soccority                             2013 Indoor Soccer                WB
FC Girls                              2013 Indoor Soccer                WB
Class and Pizzaz                      2011 Innertube Water Polo         CRB
Team1                                 2013 Innertube Water Polo         CRA
Team2                                 2013 Innertube Water Polo         CRA
Coed Team 1 2013                      2013 2v2 Soccer                   CRA
Coed Team 2 2013                      2013 2v2 Soccer                   CRA

  23 record(s) selected.

db2 =>
```

And now we run the cleaning command in java

```
            To be run after the deadline.
3 - Call procedure on SEASON
        Cleans all seasons where the registration deadline
        has passed but there are still less than 4 teams registered.
4 - Drop Procedure
5 - Exit Application
====================================
Make your selection: 2
Stored procedure called on team successfully.

Welcome to JAM Sports and Rec.
Database cleaning system
====================================
1 - Create procedure
2 - Call procedure on TEAM
        All teams where there are fewer players than the minimum are dele
        To be run after the deadline.
3 - Call procedure on SEASON
        Cleans all seasons where the registration deadline
        has passed but there are still less than 4 teams registered.
4 - Drop Procedure
5 - Exit Application
====================================
Make your selection:
```

And we see what got deleted

```
db2 => select * from team

NAME                              SYEAR      SPORT                              LLEVEL
--------------------------------  ---------  ---------------------------------  ------
Far Post                          2013 2v2 Soccer                              MB
Far Post                          2012 2v2 Soccer                              MB
Class and Pizzaz                  2013 2v2 Soccer                              CRA

  3 record(s) selected.

db2 =>
```

4. **Dropping Procedure**

We can run the drop command:

CleanDatabase [Java Application] C:\Program Files\Java\jre7\bin\javaw.exe (2013-03-19 12:36:37 PM
        has passed but there are still less than 4 teams registered.
4 - Drop Procedure
5 - Exit Application
====================================
Make your selection: 4
Stored procedure was deleted.

Welcome to JAM Sports and Rec.
Database cleaning system
====================================
1 - Create procedure
2 - Call procedure on TEAM
        All teams where there are fewer players than the minimum are dele
        To be run after the deadline.
3 - Call procedure on SEASON
        Cleans all seasons where the registration deadline
        has passed but there are still less than 4 teams registered.
4 - Drop Procedure

And check that we no longer have a stored procedure

```
db2 => SELECT * FROM syscat.routinedep WHERE routineschema = 'JMCCOR6'

ROUTINESCHEMA
                                                    SPECIFICNAME

                    BTYPE BSCHEMA
                                                                  BNAME

                                        TABAUTH ROUTINENAME


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  0 record(s) selected.

db2 => 
```