10/16/2019 Assignment3

```
In [15]: import sqlite3
In [16]: conn = sqlite3.connect('database.sqlite')
In [17]: cursor= conn.cursor()
In []: cursor.execute("SELECT name FROM sqlite_master WHERE type='table';")
    print('Tables:', [t[0] for t in cursor.fetchall()])
```

Question 1. Write a SQL query that lists all the players born between 1987 and 1990 inclusive, sort them from the oldest to the youngest.:

Question 2: Write a SQL query that ranks all countries and leagues based on the total amount of total goals scored per game in the whole dataset. Sort them by the largest to the smallest amount of goals.

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Question 3: Write a SQL query that ranks all teams by the average of all their attributes (not the players' attributes), sort them from best to worst.

```
print(' Team Long Names, Average of Attributes')
In [ ]:
        print('-'*50)
        qry3 = 'SELECT t.team long name, \
               (buildupplayspeed+buildUpPlayDribbling+buildUpPlayPassing+chanceCreatio
        nPassing+chanceCreationCrossing+chanceCreationShooting+defencePressure+defence
        Aggression+defenceTeamWidth)/9 as average \
        FROM
               team t \
               JOIN (SELECT team_fifa_api_id, \
                            team api id, \
                            Avg(buildupplayspeed) AS buildUpPlaySpeed ,\
                            Avg(buildUpPlayDribbling) AS buildUpPlayDribbling , \
                            Avg(buildUpPlayPassing) AS buildUpPlayPassing , \
                            Avg(chanceCreationPassing) AS chanceCreationPassing , \
                            Avg(chanceCreationCrossing) AS chanceCreationCrossing , \
                            Avg(chanceCreationShooting) AS chanceCreationShooting , \
                            Avg(defencePressure) AS defencePressure , \
                            Avg(defenceAggression) AS defenceAggression , \
                            Avg(defenceTeamWidth) AS defenceTeamWidth \
                     FROM
                            team attributes \
                     GROUP BY team fifa api id, \
                               team_api_id) src \
                 ON t.team api id = src.team api id \
                    AND t.team_fifa_api_id = src.team_fifa_api_id \
        order by average desc'
        for res in cursor.execute(qry3):print(res)
```

Question 4: Write a SQL query that ranks all teams by the average of their players' attributes, sort them by descending order displaying only the top 5.

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Question 5: Write a SINGLE SQL query that finds the date that had the most goals scored on, per each different season and league.

Graduate Student Task: Write a SINGLE SQL query that finds the top 5 teams in terms of goals scored PER league for the 2008/2009 season.

```
In [ ]:
```