

# MEMO

**DATE:** February 23, 2020

**TO:** Devi Endluri

**FROM:** Siyuan Yang

**SUBJECT: Phase 2 Deliverable #3. Process and Contribution**

## **Team Process**

First, we decided the fifteen high level entities we would import into our database based on our previous design document and the data provided on eCampus. Then, we added the year column for these high-level entities that have varied data from 2005 to 2013 so that we could import data with different years into a single data table. Next, we created the data tables in pgAdmin4 and added corresponding columns to it based on the csv file provided. Finally, we imported all the data to the data tables we created in our database and granted privileges to our team members.

## **My Contribution**

Our team distributed the work evenly, and I am responsible for creating, revising and importing the data tables of Stadium, Conference and Kickoff in the database. The changes we made in the design document are shown below:

### **Stadium:** (Originally named as Location)

- **Original Elements:** Stadium, City, State, ZipCode
- **Current Elements:** StadiumCode, StadiumName, City, State, Capacity, Surface, YearOpened
- **Justifications:** “Stadium” does not get information from any of the entities and gives information to “Game”. Thus, I added the column of “StadiumCode” so that “Game” can get access to this information. The information provided by “Stadium” could be used to show the impact of the location of where a game is played to the score results. That’s why we need “Capacity”, “Surface” and “YearOpened” to see if it’s the appropriate location for the game. The “Stadium” will mostly stay the same unless college teams change the place where they play their home games. Therefore, the “StadiumName”, “City” and “State” are kept unchanged.

### **Conference:**

- **Original Elements:** Division, DivisionID, College, RankinConference
- **Current Elements:** ConferenceCode, ConferenceName, Subdivision
- **Justifications:** I kept most of the elements in the “Conference” data table the same except for “RankinConference”. I deleted this column as I couldn’t find this information in the data file provided.

Kickoff: (newly added)

- **Current Elements:** GameCode, PlayNumber, TeamCode, PlayerCode, Attempt, Yards, FairCatch, Touchback, Downed, Outofbounds, Onside, OnsideSuccess, Year
- **Justifications:** I added the “Kickoff” data table because “Kickoff” gives information to “Game”, “Play”, “Team” and “Player”. The information provided by “Kickoff” data table can be used to better understand the performance of a drive in a gridiron football game. This is essential since it provides detailed information to four other data tables we have.

Pass: (newly added)

- **Current Elements:** GameCode, PlayNumber, TeamCode, PasserPlayerCode, ReceiverPlayerCode, Attempt, Completion, Yards, Touchdown, Interception, 1stDown, Dropped, Year
- **Justifications:** I added the “Pass” data table because “Pass” gives information to “Game”, “Play”, “Team”, “Passer Player” and “Receiver Player”. Typically, a kickoff consists of one team – the “kicking team” – kicking the ball to the opposing team – the “receiving team”. Thus, “Pass” is needed because it’s part of the “Kickoff” we have.