Milestone #3: Progress Report NFL Play statistics Dataset

Submitted by - Chitradevi Maruthavanan

Reasons to change the proposal from milestone #2:

Now, I am using mac OS since my old windows laptop was not working well. I installed the postgres in local machine and running the python script from terminal

Python Code for connection initialization and table creation:

The below screenshot is for the fumble table creation:

chitradevi@Chitradevis-MacBook-Pro intro_to_db % python3 db_project_3.py
Created FUMBLES table

The below Postgres SQL server output for the created fumbles table schema:

Cardinality:

```
oostgres=# select count(*) from fumbles;
count
----
0
11 row)
```

Copy command:

The below screenshot is for the copy command

chitradevi@Chitradevis-MacBook-Pro intro_to_db % python3 db_project_3.py
14910 Successfully inserted

The below Postgres SQL server output for the inserted fumbles table :

fumid	playid	teamid	playerid	fumposition	fumtype	fumoob	fumturnover	fumnull
800001	1	3800	20020185	RB	forced	0	0	0
800002	27	3200	20000239	FB	forced	0	0	0
800003	53	3200	20000199	į QB	unforced	0	1	0
800004	56	3800	20020081	į QB	forced	0	0	0
800005	84	3800	19970057	LB	forced	1	0	0
800006	174	3300	19990131	į QB	unforced	0	1	0
800007	182	3300	19990131	į QB	forced	0	0	0
800008	188	3300	19990438	RB	unforced	0	1	0
800009	222	3800	19900017	RB	forced	0	1	0
800010	333	3800	20020081	į QB	forced	0	0	0
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Total number of rows in the fumbles table are:

Questions

(1 row)

Q1) Finding out the DOB and highest visiting team final score of Steven Miller.

Answer:

Output:

Q2) Finding out the lowest five tackle yds scrim with tackle

Answer:

Q3) Find game participant name, unit and snapcount for player who lives in Vermont

Answer:

```
def runQuery3(conn):
    select Query = "select gameid,nameFirst,gamePartUnit,gamepartSnapCount from gameparticipation where homeState ='VT'"
    with conn.cursor() as cursor:
    cursor.execute(select Query)
    records = cursor.fetchall()
    for row in records:
        output_df = ('gameid': row[0], 'nameFirst': row[1], 'gamePartUnit' : row[2], 'gamepartSnapCount': row[3])
    vermontgameParticipant df = pd.concat([vermontgameParticipant df,pd.DataFrame.from records([output df])])
    print(vermontgameParticipant df)
```

Output:

chitradevi@Chitradevis-MacBook-Pro intro_to_db % python3

		gameid	nameriist	gamerartunit	gamepartSnapCount
(ð	56466	Jason	offense	21
(ð	56435	Jason	offense	31
(ð	56453	Jason	offense	18
(ð	56466	Jason	special teams	1
(ð	56435	Jason	special teams	2
(ð	56453	Jason	special teams	_1
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