

## Phase 2 Deliverable #2. Query Correctness

a) Checking to see that the number of teams adds up to the number in the excel sheet

i) SQL:

```
SELECT COUNT(*) FROM "Teams"  
WHERE "Teams"."Year" = 2005;
```

ii) Output:

	count bigint
1	239

b) Checking to see if the "Teams" align with the conferences and there is a one to one match

i) SQL:

```
SELECT DISTINCT "Teams"."Name" FROM "Teams" INNER JOIN "Conference"  
ON "Teams"."ConferenceCode" = "Conference"."ConferenceCode";
```

ii) Output: (Not everything fit)

	Name text
1	UC Davis
2	Colgate
3	Miami (...)
4	Nevada
5	Clemson
6	Texas ...
7	Arkans...
8	New M...
9	BYU

c) Making sure that the conference names are there and that they are correct, this also is confirmed by the first query. (The number of rows returned are the same as the count in the first query)

i) SQL:

```
SELECT "Teams"."Name", "Conference"."ConferenceName", "Teams"."Year"  
FROM "Teams"  
INNER JOIN "Conference"  
ON "Teams"."ConferenceCode" = "Conference"."ConferenceCode"  
WHERE "Teams"."Year" = 2005;
```

ii) Output:

	Name text	ConferenceName text	Year integer
1	Akron	Mid-American Confere...	2005
2	Alabama	Southeastern Conferen...	2005
3	UAB	Conference USA	2005
4	Arizona...	Pacific-10 Conference	2005
5	Arizona	Pacific-10 Conference	2005
6	Arkans...	Sun Belt Conference	2005
7	Arkans...	Southeastern Conferen...	2005
8	Auburn	Southeastern Conferen...	2005
9	Ball Sta...	Mid-American Confere...	2005
10	Baylor	Big 12 Conference	2005
11	Boise S...	Western Athletic Confe...	2005
12	Roston	Atlantic Coast Confere...	2005

✓ Successfully run. Total query runtime: 489 msec. 239 rows affected.

d) Checking that there is a correct relationship between "Teams" and "TeamGameStatistics" while checking that there are correct numbers while cross-checking it with the Excel data.

i) SQL:

```
SELECT "Teams"."Name", "TeamGameStatistics"."FieldGoalMade" FROM
"Teams"
INNER JOIN "TeamGameStatistics"
ON "Teams"."TeamCode" = "TeamGameStatistics"."TeamCode"
AND "Teams"."Year" = "TeamGameStatistics"."year"
WHERE "Teams"."Year" = 2005 AND "Teams"."Name" = 'Akron';
```

ii) Output:

	Name text	FieldGoalMade integer
1	Akron	1
2	Akron	1
3	Akron	2
4	Akron	1
5	Akron	2
6	Akron	1
7	Akron	0
8	Akron	1
9	Akron	1
10	Akron	2
11	Akron	0
12	Akron	1
13	Akron	1

e) Making sure that there is a correct relationship between "Team" and "Reception" and "Game". This is correct because only one team shows up.

i) SQL:

```
SELECT "Reception"."Yards", "Teams"."Name" FROM "Reception"
INNER JOIN "Teams"
ON "Reception"."TeamCode" = "Teams"."TeamCode"
```

```

INNER JOIN "Game"
ON "Game"."homeTeamCode" = "Teams"."TeamCode"
AND "Teams"."Year" = "Reception"."Year"
WHERE "Game"."Date" = '2005-09-01' AND "Reception"."GameCode" =
86016420050901;

```

ii) Output:

	Yards integer	Name text
1	7	Connecticut
2	12	Connecticut
3	6	Connecticut
4	15	Connecticut
5	12	Connecticut
6	22	Connecticut
7	9	Connecticut
8	9	Connecticut
9	6	Connecticut
10	8	Connecticut
11	15	Connecticut
12	6	Connecticut
13	2	Connecticut
14	3	Connecticut

f) Showing the total number of “Kickoff”

i) SQL:  
SELECT COUNT(\*) FROM "Kickoff";

ii) Output:

Data Output	Explain	Messages	Notifications
count bigint			
1	77817		

g) Showing the total number of “Pass”

i) SQL:  
SELECT COUNT(\*) FROM "Pass";

ii) Output:

Data Output	Explain	Messages	Notifications
count bigint			
1	455082		

h) Showing all the stadium names opened after 2000

i) SQL:  
SELECT "Stadium"."StadiumName" FROM "Stadium"  
WHERE "Stadium"."YearOpened" > 2000;

ii) Output:

Data Output	Explain	Messages	Notifications
<b>StadiumName</b> text			
1	Invesco Field at Mil...		
2	Rentschler Field		
3	Ford Field		
4	Lincoln Financial Fi...		
5	Heinz Field		
6	Reliant Stadium		
7	Qwest Field		

i) Showing all the conference names which are in FBS subdivision

i) SQL:

```
SELECT "Conference"."ConferenceName" FROM "Conference"
WHERE "Conference"."Subdivision" = 'FBS';
```

ii) Output:

Data Output	Explain	Messages	Notifications
<b>ConferenceName</b> text			
1	Atlantic Coast Confere...		
2	Big 12 Conference		
3	Big East Conference		
4	Big Ten Conference		
5	Conference USA		
6	Independent		
7	Mid-American Confere...		
8	Mountain West Confer...		
9	Pacific-10 Conference		
10	Southeastern Conferen...		
11	Sun Belt Conference		
12	Western Athletic Confe...		

j) Showing Alex Allen's interception in corresponding play number as a passer

i) SQL:

```
SELECT "Pass"."PlayNumber", "Pass"."Interception"
FROM "Pass"
INNER JOIN "Player" ON "Player"."PlayerCode" =
"Pass"."PasserPlayerCode"
WHERE "Player"."LastName" = 'Allen' AND "Player"."FirstName" = 'Alex';
```

ii) Output:

Data Output	Explain	Messages	Notifications
PlayNumber integer	Interception integer		
1	105	0	
2	105	0	
3	105	0	
4	105	0	
5	105	0	
6	105	0	
7	162	0	
8	162	0	
9	162	0	
10	162	0	
11	162	0	
12	162	0	

k) Showing all games' information that was played at Rose Bowl stadium in 2007

i) SQL:

```
SELECT "Game"."GameCode", "Game"."Date",
       "Game"."visitTeamCode", "Game"."homeTeamCode",
       "Game"."Year"
FROM "Game"
INNER JOIN "Stadium" ON "Game"."stadiumCode" =
       "Stadium"."StadiumCode"
WHERE "Stadium"."StadiumName" = 'Rose Bowl' AND "Game"."Year" =
       2007;
```

ii) Output:

	GameCode bigint	Date date	visitTeamCode integer	homeTeamCode integer	Year integer
1	77011020070908	2007-09...	77	110	2007
2	756011020070922	2007-09...	756	110	2007
3	513011020071006	2007-10...	513	110	2007
4	107011020071020	2007-10...	107	110	2007
5	28011020071110	2007-11...	28	110	2007
6	529011020071124	2007-11...	529	110	2007
7	301065720080101	2008-01...	301	657	2007

l) Showing all players who were in Texas A&M's team in 2005:

i) SQL:

```
SELECT "Player"."FirstName", "Player"."LastName", "Player"."Year",
       "Player"."PlayerCode"
FROM "Player"
INNER JOIN "Teams" ON "Teams"."TeamCode" = "Player"."TeamCode"
       AND "Player"."Year" = "Teams"."Year"
WHERE "Teams"."Name" = 'Texas A&M' AND "Player"."Year" = 2005;
```

ii) Output (couldn't fit all information in one screen):

	FirstName text	LastName text	Year integer	PlayerCode integer
1	Chris	Alexander	2005	59811
2	David	Anderson	2005	1003668
3	Jaxson	Appel	2005	40102
4	Yemi	Babalola	2005	83345
5	Jamal	Barrett	2005	83310
6	Richie	Bean	2005	83323
7	Martellus	Bennett	2005	83304
8	Michael	Bennett	2005	83298
9	Ben	Bitner	2005	83326
10	Greg	Boothe	2005	83328
11	Justin	Brantly	2005	83331
12	Ty	Branyon	2005	69609
13	Trey	Brooks	2005	83302
14	Arkeith	Brown	2005	83335
15	Japhus	Brown	2005	59813
16	Pierre	Brown	2005	83312
17	Kevin	Bryan	2005	83343
18	Joseph Red	Bryant	2005	69611
19	Chevar	Bryson	2005	83324
20	Melvin	Bullitt	2005	59808
21	Lorenzo	Calloway	2005	83350
22	Marquis	Carpenter	2005	85010
23	Jason	Carter	2005	83313
24	Jordan	Chambless	2005	83309
25	Corey	Clark	2005	59822
26	Michael	Corey	2005	83299

m) Showing all teams in Big Sky's conference:

i) SQL:

```
SELECT "Teams"."Name" FROM "Teams"
INNER JOIN "Conference" ON "Teams"."ConferenceCode" =
    "Conference"."ConferenceCode"
WHERE "Conference"."ConferenceName" = 'Big Sky';
```

ii) Output (couldn't fit all information in one screen):

	Name text
1	Sacramento State
2	Eastern Washington
3	Idaho State
4	Montana State
5	Montana
6	Northern Arizona
7	Portland State
8	Weber State
9	Sacramento State
10	Eastern Washington
11	Idaho State
12	Montana State
13	Montana
14	Northern Arizona
15	Portland State
16	Weber State
17	Sacramento State
18	Eastern Washington
19	Idaho State
20	Montana State
21	Montana
22	Northern Arizona
23	Northern Colorado
24	Portland State
25	Weber State
26	Sacramento State
27	Eastern Washington

n) Showing count of all teams in 2009:

- i) SQL:  
SELECT COUNT(\*)  
FROM "Teams"  
WHERE "Teams"."Year" = 2009;

ii) Output:

	count bigint
1	245

o) Showing all stadiums which have a capacity over than 70,000:

- i) SQL:  
SELECT "Stadium"."StadiumName", "Stadium"."Capacity" FROM  
"Stadium"  
WHERE "Stadium"."Capacity" > 70000;
- ii) Output (couldn't fit all information in one screen):

	StadiumName text	Capacity integer
1	Jordan-Hare Stadium	87451
2	Legion Field	71594
3	Bryant-Denny Stadi...	92138
4	Donald W. Reynolds...	72000
5	Sun Devil Stadium	73000
6	Memorial Stadium	73347
7	LA Coliseum	92000
8	Rose Bowl	91136
9	Qualcomm Stadium	71294
10	Stanford Stadium	85500
11	Invesco Field at Mil...	76125
12	Ben Hill Griffin Stadi...	88548
13	Alltel Stadium	73800
14	Dolphins Stadium	75235
15	Orange Bowl	72319
16	Doak Campbell Sta...	80000
17	Sanford Stadium	92746
18	Georgia Dome	71250
19	Notre Dame Stadium	80795
20	Tiger Stadium	91600
21	FedEx Field	80116
22	Michigan Stadium	107501
23	Spartan Stadium	73000
24	Arrowhead Stadium	79451
25	Bank of America St...	73248
26	Memorial Stadium	81067
27	Giants Stadium	80242

p) In the query below, we are able to get a count of all players whose height is greater than 80.

i) SQL:

```
SELECT COUNT(*) FROM "Player" WHERE
"Player"."Height" > 80
```

ii) Output:

	count bigint
1	106

q) In the query below we can see the weight of the player ordered from least to greatest. Thus showing what players have the least weight.

i) SQL:

```
SELECT "Player"."FirstName", "Player"."LastName", "Player"."Weight"
FROM "Player"
ORDER BY "Player"."Weight" ASC
```



ii) Output:

	FirstName text	LastName text	Weight integer
1	April	Goss	125
2	Jayson	Carter	135
3	Jayson	Carter	135
4	Spencer	Martin	135
5	Jamill	Smith	135
6	Spencer	Martin	135
7	Jamill	Smith	137
8	Jamill	Smith	137
9	Cody	Stepko	137

r) In the query below, we can see what players achieved rush yards of greater than 98.

i) SQL:

```
SELECT "Player"."FirstName", "Player"."LastName" FROM "Player"  
INNER JOIN "Rush" ON "Rush"."PlayerCode" = "Player"."PlayerCode"  
WHERE "Rush"."Yards" > 98
```

ii) Output:

	FirstName text	LastName text
1	Broderick	Green
2	Broderick	Green
3	Andre	Williams
4	Broderick	Green
5	Ronnie	Hillman
6	Broderick	Green
7	Andre	Williams
8	Ronnie	Hillman
9	Zach	Zenner
10	Broderick	Green
11	Andre	Williams
12	Ronnie	Hillman
13	Zach	Zenner
14	Andre	Williams
15	Zach	Zenner
16	Zach	Zenner

s) In the query below, we are to show what players are from Canada.

i) SQL:

```
SELECT "Player"."FirstName", "Player"."LastName",
"Player"."HomeCountry" FROM "Player"
WHERE "Player"."HomeCountry" = 'CA'
```

ii) Output:

	FirstName text	LastName text	HomeCountry text
1	Jabari	Arthur	CA
2	Josh	Bean	CA
3	Jon	Gott	CA
4	Andrew	Woodruff	CA
5	Kevin	Challenger	CA
6	Jadon	Wagner	CA
7	Ronald	Hilaire	CA
8	James	Judges	CA
9	Bruno	Lapointe	CA
10	Keith	Shologan	CA
11	Eric	Fraser	CA
12	Kito	Poblah	CA
13	Greg	Wojt	CA
14	Martin	Bedard	CA
15	Muhammad	Petrus	CA
16	Chris	Rwabukamba	CA
17	Shomari	Williams	CA
18	Rolly	Lumbala	CA
19	Tang	Bacheyie	CA

t) In the query below we can see what players were able to complete 300 pass yards and a total of 125 rush yards in a single game.

i) SQL:

```
SELECT DISTINCT "Player"."FirstName", "Player"."LastName" FROM
"Player"
INNER JOIN "PlayerGameStatistics" ON "Player"."PlayerCode" =
"PlayerGameStatistics"."PlayerCode"
WHERE "PlayerGameStatistics"."PassYard" > 300 and
"PlayerGameStatistics"."RushYard" > 125
```

ii) Output:

1	B.J.	Daniels
2	Brett	Smith
3	Chandler	Harnish
4	Colt	McCoy
5	Dan	LeFevour
6	Jake	Locker
7	Joe	Webb
8	Joseph	Webb
9	Omar	Clayton
10	Tajh	Boyd
11	Taysom	Hill