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NFL Draft Database

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# Part One

# Summary

The NFL has draft has a long rich history which began in Philadelphia, Pennsylvania in 1936. Since then, thousands of players have been drafted year after year. To make it easier on the NFL my mission is to create a database of all of the players that have been drafted into the NFL in 2021 NFL Draft.

# Stakeholders

* NFL Players
* NFL Front Office
* NFL Fans

# Business Rules

* Each individual player has a player category: which includes their college, position, and name. Each individual player can only be drafted by one team. Each individual player is only in one draft and each individual player can only be in one round.
* Each team can have zero or more drafted players each year.
* A player can be from multiple colleges
* A player can play one or more positions

# Data Questions

* Which team had the most selections?
* Which position was drafted the most or least in the first round?
* Which position was drafted the most or least?

# Conceptual Model

Diagram

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# Logistical Model

Diagram

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# Part Two

## Data Definition Language – Creating Tables and Constraints

CREATE TABLE Draft (

DraftID int identity primary key

, YearDrafted int not null

)

CREATE TABLE Player1 (

PlayerID int identity primary key

, FirstName varchar(25) not null

, LastName varchar(25) not null

, RoundTaken varchar(3) not null

, Position varchar(3) not null

, Age int

, Graduationyear int

, DraftID int not null foreign key references Draft(DraftID)

)

CREATE TABLE Team1 (

TeamID int identity primary key

, City varchar(20) not null

, TeamName varchar(20) not null

, PlayerID int not null foreign key references Player1(PlayerID)

)

CREATE TABLE College1 (

CollegeID int identity primary key

, CollegeCity varchar(25)

, CollegeTeamName varchar(25)

, PlayerID int not null foreign key references Player(PlayerID)

)

## Data Manipulation Language

### Adding Data using INSERT Statements

INSERT INTO Draft (YearDrafted)

VALUES

('2020')

, ('2021')

, ('2022')

INSERT INTO Team (City, TeamName)

VALUES

('Arizona', 'Cardinals')

,('Atlanta', 'Falcons')

,('Baltimore', 'Ravens')

,('Buffalo', 'Bills')

,('Carolina', 'Panthers')

,('Chicago', 'Bears')

,('Cincinnati', 'Bengals')

,('Cleveland', 'Browns')

,('Dallas', 'Cowboys')

,('Denver', 'Broncos')

,('Detroit', 'Lions')

,('Green Bay', 'Packers')

,('Houston', 'Texans')

,('Indianapolis', 'Colts')

,('Jacksonville', 'Jaguars')

,('Kansas City','Chiefs')

,('Las Vegas', 'Raiders')

,('Los Angeles', 'Chargers')

,('Los Angeles', 'Rams')

,('Miami', 'Dolphins')

,('Minnesota', 'Vikings')

,('New England', 'Patriots')

,('New Orleans', 'Saints')

,('New York', 'Giants')

,('New York', 'Jets')

,('Philadelphia', 'Eagles')

,('Pittsburgh', 'Steelers')

,('San Francisco', '49ers')

,('Seattle', 'Seahawks')

,('Tampa Bay', 'Buccaneers')

,('Tennessee', 'Titans')

,('Washington', 'Commanders')

INSERT INTO Player (RoundTaken, FirstName, LastName, Position, DraftID)

VALUES

('1st','Trevor','Lawrence','QB', '2')

,('1st','Zach', 'Wilson','QB','2')

,('1st','Trey','Lance','QB','2')

,('1st','Kyle','Pitts','TE','2')

,('1st','JaMarr','Chase','WR','2')

,('1st','Jaylen','Waddle','WR','2')

,('1st','Penei','Sewell','OT','2')

,('1st','Jaycee','Horn', 'CB','2')

,('1st','Patrick','Surtain II', 'CB','2')

,('1st','DeVonta','Smith','WR','2')

,('1st','Justin','Fields','QB','2')

,('1st','Micah','Parsons','LB','2')

,('1st','Rashawn','Slater','OT','2')

,('1st','Alijah','Vera-Tucker','OG','2')

,('1st','Mac','Jones','QB','2')

,('1st','Zaven','Collins','LB','2')

,('1st','Alex','Leatherwood','OT','2')

,('1st','Jaelan','Phillips','DE','2')

,('1st','Jamin','Davis','LB','2')

,('1st','Kadarius','Toney','WR','2')

,('1st','Kwity','Paye','DE','2')

,('1st','Caleb','Farley','CB','2')

,('1st','Christian','Darrisaw','OT','2')

,('1st','Najee','Harris','RB','2')

,('1st','Travis','Etienne','RB','2')

,('1st','Greg','Newsome II','CB','2')

,('1st','Rashod','Bateman','WR','2')

,('1st','Payton','Turner','DE','2')

,('1st','Eric','Stokes','CB','2')

,('1st','Gregory','Rousseau','DE','2')

,('1st','Odafe','Oweh','DE','2')

,('1st','Joe','Tryon-Shoyinka','DE','2')

,('2nd','Tyson','Campbell','CB','2')

,('2nd','Elijah','Moore','WR','2')

,('2nd','Javonte','Williams','RB','2')

,('2nd','Jevon','Holland','S','2')

,('2nd','Landon','Dickerson','C','2')

,('2nd','Christian','Barmore','DT','2')

,('2nd','Teven','Jenkins','OT','2')

,('2nd','Richie','Grant','S','2')

,('2nd','Levi','Onwuzurike','DT','2')

,('2nd','Liam','Eichenberg','OT','2')

,('2nd','Trevon','Moehrig','S','2')

,('2nd','Kelvin','Joseph','CB','2')

,('2nd','Walker','Little','OT','2')

,('2nd','Jackson','Carman','OT','2')

,('2nd','Asante','Samuel Jr.','CB','2')

,('2nd','Aaron','Banks','OG','2')

,('2nd','Rondale','Moore','WR','2')

,('2nd','Azeez','Ojulari', 'DE','2')

,('2nd','Sam','Cosmi','OT','2')

,('2nd','Jeremiah','Owusu-Koramoah','LB','2')

,('2nd','Dillon','Radunz','OT','2')

,('2nd','Dayo','Odeyingbo','DE','2')

,('2nd','Pat','Freiermuth','TE','2')

,('2nd','DWayne','Eskridge', 'WR','2')

,('2nd','Tutu','Atwell', 'WR','2')

,('2nd','Nick','Bolton','LB','2')

,('2nd','Terrace', 'Marshall Jr.', 'WR','2')

,('2nd','Pete','Werner', 'LB','2')

,('2nd','Carlos', 'Basham Jr.','DE','2')

,('2nd','Josh', 'Myers','C','2')

,('2nd','Creed', 'Humphrey','C','2')

,('2nd','Kyle','Trask','QB','2')

,('3rd','Andre', 'Cisco','S','2')

,('3rd','Kellen', 'Mond','QB','2')

,('3rd','Davis', 'Mills','QB','2')

,('3rd','Jalen','Mayfield','OT','2')

,('3rd','Joseph', 'Ossai','DE','2')

,('3rd','Brady', 'Christensen','OT','2')

,('3rd','Aaron', 'Robinson','CB','2')

,('3rd','Alim', 'McNeill', 'DT','2')

,('3rd','Milton', 'Williams','DT','2')

,('3rd','Benjamin', 'St-Juste','CB','2')

,('3rd','Osa', 'Odighizuwa', 'DT','2')

,('3rd','Paulson', 'Adebo','CB','2')

,('3rd','Josh', 'Palmer', 'WR','2')

,('3rd','Chazz','Surratt','LB','2')

,('3rd','Malcolm', 'Koonce','DE','2')

,('3rd','Divine','Deablo','LB','2')

,('3rd','Hunter', 'Long','TE','2')

,('3rd','Dyami', 'Brown','WR','2')

,('3rd','Tommy', 'Tremble','TE','2')

,('3rd','Chauncey', 'Golston','DE','2')

,('3rd','Amari', 'Rodgers','WR','2')

,('3rd','Wyatt', 'Davis', 'OG','2')

,('3rd','Kendrick', 'Green', 'C','2')

,('3rd','Trey', 'Sermon','RB','2')

,('3rd','Nico', 'Collins', 'WR','2')

,('3rd','Patrick', 'Jones II', 'DE','2')

,('3rd','Anthony', 'Schwartz','WR','2')

,('3rd','Monty', 'Rice', 'LB','2')

,('3rd','Spencer' ,'Brown','OT','2')

,('3rd','Ben', 'Cleveland', 'OG','2')

,('3rd','Robert', 'Hainsey', 'OT','2')

,('3rd','Ronnie', 'Perkins','DE','2')

,('3rd','Tre', 'McKitty', 'TE','2')

,('3rd','Quinn', 'Meinerz', 'C','2')

,('3rd','Nahshon', 'Wright', 'CB','2')

,('3rd','Elijah', 'Molden', 'CB','2')

,('3rd','Ifeatu', 'Melifonwu', 'CB','2')

,('3rd','Ambry', 'Thomas',  'CB','2')

,('3rd','Ernest', 'Jones',  'LB','2')

,('3rd','Brandon', 'Stephens',  'CB','2')

,('3rd','Baron', 'Browning',  'LB','2')

,('4th','Jay', 'Tufele',  'DT','2')

,('4th','Michael', 'Carter',  'RB','2')

,('4th','Darren', 'Hall','CB','2')

,('4th','Dez', 'Fitzpatrick',  'WR','2')

,('4th','James', 'Hudson',  'OT','2')

,('4th','Cameron', 'Sample','DE','2')

,('4th','Amon-Ra', 'St. Brown', 'WR','2')

,('4th','Derrick','Barnes','LB','2')

,('4th','Drew', 'Dalman', 'C','2')

,('4th','Jabril', 'Cox', 'LB','2')

,('4th','Elerson', 'Smith', 'DE','2')

,('4th','Bobby', 'Brown III',  'DT','2')

,('4th','Chris', 'Rumph II', 'DE','2')

,('4th','Kene', 'Nwangwu',  'RB','2')

,('4th','Rhamondre', 'Stevenson','RB','2')

,('4th','Jordan', 'Smith', 'DE','2')

,('4th','Tyler', 'Shelvin', 'DT','2')

,('4th','Zech', 'McPhearson','CB','2')

,('4th','John', 'Bates', 'TE','2')

,('4th','Camryn', 'Bynum','S','2')

,('4th','Chuba', 'Hubbard','RB','2')

,('4th','Kylen', 'Granson', 'TE','2')

,('4th','Dan', 'Moore', 'OT','2')

,('4th','Jaelon','Darden',  'WR','2')

,('4th','Robert', 'Rochell', 'CB','2')

,('4th','Tylan',' Wallace', 'WR','2')

,('4th','Tommy', 'Togiai', 'DT','2')

,('4th','Ian','Book', 'QB','2')

,('4th','Janarius', 'Robinson', 'DE','2')

,('4th','Rashad', 'Weaver','DE','2')

,('4th','Marco', 'Wilson','CB','2')

,('4th','Tre', 'Brown', 'CB','2')

,('4th','Josh', 'Ball', 'OT','2')

,('4th','DAnte', 'Smith','OT','2')

,('4th','Buddy', 'Johnson', 'LB','2')

,('4th','Jacob', 'Harris', 'WR','2')

,('4th','Royce', 'Newman', 'OG','2')

,('4th','Tyree', 'Gillespie', 'S','2')

,('4th','Joshua','Kaindoh','DE','2')

,('5th','Luke','Farrell','TE','2')

,('5th','Jamien','Sherwood', 'S','2')

,('5th','Brevin','Jordan',  'TE','2')

,('5th','TaQuon', 'Graham','DE','2')

,('5th','Evan', 'McPherson', 'K','2')

,('5th','Kenneth', 'Gainwell',  'RB','2')

,('5th','Larry', 'Borom','OT','2')

,('5th','Caden', 'Sterns','S','2')

,('5th','Tony', 'Fields II', 'LB','2')

,('5th','Michael','Carter II','S','2')

,('5th','Jaylon', 'Moore',  'OG','2')

,('5th','Isaiahh', 'Loudermilk', 'DT','2')

,('5th','Ihmir', 'Smith-Marsette', 'WR','2')

,('5th','Daviyon', 'Nixon', 'DT','2')

,('5th','Brenden', 'Jaimes', 'OT','2')

,('5th','Shaun', 'Wade', 'CB','2')

,('5th','Tommy', 'Doyle', 'OT','2')

,('5th','Noah', 'Gray' ,'TE','2')

,('5th','Darrick', 'Forrest','S','2')

,('5th','Jamar', 'Johnson', 'S','2')

,('5th','Shawn', 'Davis', 'S','2')

,('5th','Keith', 'Taylor',  'CB','2')

,('5th','Nate', 'Hobbs',  'CB','2')

,('5th','Zach', 'Davidson', 'TE','2')

,('5th','Richard', 'LeCounte','S','2')

,('5th','Garret', 'Wallow', 'LB','2')

,('5th','Daelin', 'Hayes',  'DE','2')

,('5th','Deommodore', 'Lenoir',  'CB','2')

,('5th','Tedarrell', 'Slaton',  'DT','2')

,('5th','Earnest',' Brown IV',  'DE','2')

,('5th','Jason', 'Pinnock',  'CB','2')

,('5th','K. J.', 'Britt', 'LB','2')

,('5th','Cameron', 'McGrone',  'LB','2')

,('5th','Shemar', 'Jean-Charles',  'CB','2')

,('5th','Simi', 'Fehoko',  'WR','2')

,('5th','Talanoa', 'Hufanga', 'S','2')

,('5th','Cornell', 'Powell',  'WR','2')

,('5th','Adetokunbo', 'Ogundeji',  'DE','2')

,('5th','Avery',' Williams',  'CB','2')

,('5th','Ben', 'Mason',  'FB','2')

,('6th','Nick', 'Niemann',  'LB','2')

,('6th','Hamsah', 'Nasirildeen',  'S','2')

,('6th','Frank', 'Darby', 'WR','2')

,('6th','Joshuah', 'Bledsoe',  'S','2')

,('6th','Marlon', 'Tuipulotu',  'DT','2')

,('6th','Trey', 'Hill', 'C','2')

,('6th','Tarron', 'Jackson',  'DE','2')

,('6th','Quinton', 'Bohanna', 'DT','2')

,('6th','Deonte', 'Brown',  'OG','2')

,('6th','Elijah', 'Mitchell', 'RB','2')

,('6th','Roy', 'Lopez',  'DT','2')

,('6th','Gary', 'Brightwell', 'RB','2')

,('6th','William', 'Sherman', 'OT','2')

,('6th','Larry', 'Rountree III',  'RB','2')

,('6th','Jaylen', 'Twyman,',  'DT','2')

,('6th','Brandin', 'Echols',  'CB','2')

,('6th','Rodarius', 'Williams',  'CB','2')

,('6th','Chris', 'Evans',  'RB','2')

,('6th','Marquez','Stevenson','WR','2')

,('6th','Shi', 'Smith', 'WR','2')

,('6th','Racey', 'McMath','WR','2')

,('6th','Landon', 'Young','OT','2')

,('6th','Jonathan', 'Marshall', 'DT','2')

,('6th','Stone', 'Forsythe','OT','2')

,('6th','Jalen', 'Camp','WR','2')

,('6th','Victor', 'Dimukeje','DE','2')

,('6th','Demetric', 'Felton', 'RB','2')

,('6th','Damar', 'Hamlin',  'S','2')

,('6th','Rachad', 'Wildgoose', 'CB','2')

,('6th','Cole', 'Van Lanen', 'OG','2')

,('6th','Brady', 'Breeze', 'S','2')

,('6th','Quincy','Roche', 'DE','2')

,('6th','Khalil',' Herbert', 'RB','2')

,('6th','Sam', 'Ehlinger',  'QB','2')

,('6th','Seth', 'Williams', 'WR','2')

,('6th','Isaiah', 'McDuffie', 'LB','2')

,('6th','Dazz', 'Newsome',  'WR','2')

,('6th','Thomas', 'Fletcher', 'LS','2')

,('6th','Tay','Gowan',  'CB','2')

,('6th','JaCoby', 'Stevens',  'S','2')

,('6th','Camaron', 'Cheeseman', 'LS','2')

,('6th','Trey', 'Smith', 'OG','2')

,('6th','Israel', 'Mukuamu', 'CB','2')

,('6th','Thomas', 'Graham Jr.', 'CB','2')

,('7th','Mike', 'Strachan',  'WR','2')

,('7th','Jimmy','Morrissey',  'C','2')

,('7th','Larnel', 'Coleman',  'OT','2')

,('7th','Phil', 'Hoskins','DT','2')

,('7th','Jake', 'Funk',  'RB','2')

,('7th','Patrick', 'Johnson', 'DE','2')

,('7th','Wyatt', 'Hubert',  'DE','2')

,('7th','Jack', 'Anderson',  'OG','2')

,('7th','Kary', 'Vincent Jr.',  'CB','2')

,('7th','Matt', 'Farniok',  'OG','2')

,('7th','Jonathon', 'Cooper',  'DE','2')

,('7th','William', 'Bradley-King',  'DE','2')

,('7th','Mark', 'Webb', 'S' ,'2')

,('7th','Tre', 'Nixon', 'WR','2')

,('7th','James', 'Wiggins', 'S','2')

,('7th','Gerrid', 'Doaks',  'RB','2')

,('7th','Tre','Norwood','CB','2')

,('7th','Shaka','Toney','DE','2')

,('7th','Michal', 'Menet',  'C','2')

,('7th','Will', 'Fries',  'OG','2')

,('7th','Ben', 'Skowronek',  'WR','2')

,('7th','Khyiris', 'Tonga',  'DT','2')

,('7th','Chris', 'Wilcox',  'CB','2')

,('7th','Chris', 'Garrett','LB','2')

,('7th','Marquiss', 'Spencer', 'DE','2')

,('7th','Pressley', 'Harvin III', 'P','2')

,('7th','Kawaan', 'Baker',  'WR','2')

,('7th','Kylin', 'Hill',  'RB','2')

,('7th','Jermar', 'Jefferson' ,'RB','2')

,('7th','Dax', 'Milne','WR','2')

,('7th','Grant', 'Stuard','LB','2')

INSERT INTO College (CollegeCity, CollegeTeamName)

VALUES

('Colorado Springs','Air Force')

, ('Akron','Akron')

, ('Tuscaloosa','Alabama')

, ('Boone','Appalachian State')

, ('Tucson','Arizona')

, ('Tempe','Arizona State')

, ('Fayetteville','Arkansas')

, ('Jonesboro','Arkansas State')

, ('West Point','Army')

, ('Auburn','Auburn')

, ('Muncie','Ball State')

, ('Waco','Baylor')

, ('Boise','Boise State')

, ('Chestnut Hill','Boston College')

, ('Bowling Green', 'Bowling Green')

, ('Buffalo','Buffalo')

, ('Provo','BYU')

, ('Berkeley','California')

, ('Mount Pleasant','Central Michigan')

, ('Charlotte','Charlotte')

, ('Cincinnati','Cincinnati')

, ('Clemson','Clemson')

, ('Conway','Coastal Carolina')

, ('Boulder','Colorado')

, ('Fort Collins','Colorado State')

, ('Durham','Duke')

, ('Greenville','East Carolina')

, ('Ypsilanti','Eastern Michigan')

, ('Miami','FIU')

, ('Gainesville','Florida')

, ('Boca Raton','Florida Atlantic')

, ('Tallahassee','Florida State')

,('Fresno','Fresno State')

,('Athens','Georgia')

,('Statesboro','Georgia Southern')

,('Atlanta','Georgia State')

,('Atlanta','Georgia Tech')

,('Honolulu','Hawaii')

,('Houston','Houston')

,('Urbana–Champaign','Illinois')

,('Bloomington','Indiana')

,('Iowa City','Iowa')

,('Ames','Iowa State')

,('Lawrence','Kansas')

,('Manhattan','Kansas State')

,('Kent','Kent State')

,('Lexington','Kentucky')

,('Lynchburg','Liberty')

,('Lafayette','Louisiana')

,('Monroe','Louisiana–Monroe')

,('Ruston','Louisiana Tech')

,('Louisville','Louisville')

,('Baton Rouge','LSU')

,('Huntington','Marshall')

,('College Park','Maryland')

,('Memphis','Memphis')

,('Coral Gables','MiamiFL')

,('Oxford','MiamiOH')

,('Ann Arbor','Michigan')

,('East Lansing','Michigan State')

,('Murfreesboro','Middle Tennessee')

,('Minneapolis','Minnesota')

,('Starkville','Mississippi State')

,('Columbia','Missouri')

,('Annapolis','Navy')

,('Raleigh','NC State')

,('Lincoln','Nebraska')

,('Reno','Nevada')

,('Albuquerque','New Mexico')

,('Las Cruces','New Mexico State')

,('Chapel Hill','North Carolina')

,('Denton','North Texas')

,('DeKalb','Northern Illinois')

,('Evanston','Northwestern')

,('South Bend','Notre Dame')

,('Athens','Ohio')

,('Columbus','Ohio State')

,('Norman','Oklahoma')

,('Stillwater','Oklahoma State')

,('Norfolk','Old Dominion')

,('Oxford','Ole Miss')

,('Eugene','Oregon')

,('Corvallis','Oregon State')

,('University Park','Penn State')

,('Pittsburgh','Pittsburgh')

,('West Lafayette','Purdue')

,('Houston','Rice')

,('Piscataway','Rutgers')

,('San Diego','San Diego State')

,('San Jose','San Jose State')

,('University Park','SMU')

,('Mobile','South Alabama')

,('Columbia','South Carolina')

,('Tampa','South Florida')

,('Hattiesburg','Southern Miss')

,('Stanford','Stanford')

,('Syracuse','Syracuse')

,('Fort Worth','TCU')

,('Philadelphia','Temple')

,('Knoxville','Tennessee')

,('Austin','Texas')

,('College Station','Texas A&M')

,('San Marcos','Texas State')

,('Lubbock','Texas Tech')

,('Toledo','Toledo')

,('Troy','Troy')

,('New Orleans','Tulane')

,('Tulsa','Tulsa')

,('Birmingham','UAB')

,('Orlando','UCF')

,('Los Angeles','UCLA')

,('Storrs','UConn')

,('Amherst','UMass')

,('Las Vegas','UNLV')

,('Los Angeles','USC')

,('El Paso','UTEP')

,('San Antonio','UTSA')

,('Salt Lake City','Utah')

,('Logan','Utah State')

,('Nashville','Vanderbilt')

,('Charlottesville','Virginia')

,('Blacksburg','Virginia Tech')

,('Winston-Salem','Wake Forest')

,('Seattle','Washington')

,('Pullman','Washington State')

,('Morgantown','West Virginia')

,('Bowling Green','Western Kentucky')

,('Kalamazoo','Western Michigan')

,('Madison','Wisconsin')

,('Laramie','Wyoming')

### Querying Data Using SELECT Statements

SELECT COUNT(Position) AS CountofPositions FROM Player

GO

SELECT \* FROM Player

CREATE VIEW Positions AS

SELECT CountofPositions,

FROM Player

GROUP BY CountofPositions

GO

SELECT \* FROM Positions ORDER BY CountofPositions DESC

SELECT COUNT(CollegeTeam) AS CountofCollege FROM Player

### Answering Data Questions

SELECT Position,RoundTaken, count(\*) as PositionCount

FROM Player3

WHERE Position = 'WR'

group by Position, RoundTaken

35 Wrs were taken in the entire draft which was 2nd most by any position

Table

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Table

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SELECT Position,RoundTaken, count(\*) as PositionCount

FROM Player3

WHERE Position = 'CB'

group by Position, RoundTaken

The most was actually Cbs at 37 Wrs were taken in the entire draft which was 2nd most by any position.

Table

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SELECT Position,RoundTaken, count(\*) as PositionCount

FROM Player3

WHERE Position = 'QB'

group by Position, RoundTaken

Qbs were taken high but only 10 in total. It’s a popular position but not across the entire draft.



SELECT Position,RoundTaken, count(\*) as PositionCount

FROM Player3

WHERE RoundTaken= '1st'

group by Position, RoundTaken

This is a breakdown of the entire first round. As you can see DE was the most popular.

## Reflection

What assumptions did you have at the start of your project that changed by the end? Think in terms of both your own problem domain as well as your knowledge of the process.

The next time you do this, what will be different?

Regardless of whether you go through these steps again, how do you think it will inform your approach to data as an information professional?

One assumption that I had was that the most picked position would be wide receiver (WR) and I was not correct. It was actually cornerback(CB).The next time I go through the process of creating a database I will probably try to use a small amount of data. This was probably a bit ambitious for me as a beginner. Also, I would like to work with some data that isn’t as complex. I think project this will really help me in the future because I got to learn a lot about SQL and coding a database.