

ESWD Project

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INCLUDE LIST OF WHAT WE DID, AND TIMELINE PER OLD GITHUB

So far, we have all each individually connected to the SQL server which contains the database for this project. We are still having some trouble accessing the data but we can figure this out later.

To begin, we loaded out data into R.

```
setwd("C:/Users/Omar Shatrat/Documents/ESWD HW/Dillards POS")
dept_info <- read.csv('deptinfo.csv', header = FALSE)
str_info <- read.csv('strinfo.csv', header = FALSE)
dept_info <- dept_info[,1:2]
str_info <- str_info[, 1:4]
colnames(dept_info) <- c('Dept', "Dept_Desc.")
colnames(str_info) <- c("Store", "City", "State", "Zip")
```

The data frame for department info. does not appear to have any meaningful information except that it notes some of the dedicated account teams that operate within Dillards. For now, it suffices to say that the department info data frame consists of 60 rows and 2 columns.

For store info, we see much more interesting insights. The following tables show us the frequency of each city, state and zip code. Little Rock, AK has the largest number of stores with 15 and zip code 72201 has the most number of stores with 14. A bar chart also shows us that Texas is by far the most populous state in terms of store frequency.

```
head(dept_info)
```

```
##   Dept Dept_Desc.
## 1  800   CLINIQUE
## 2  801    LESLIE
## 3 1100    GARY F
## 4 1107   JACQUES
## 5 1202   CABERN
## 6 1301    BE2
```

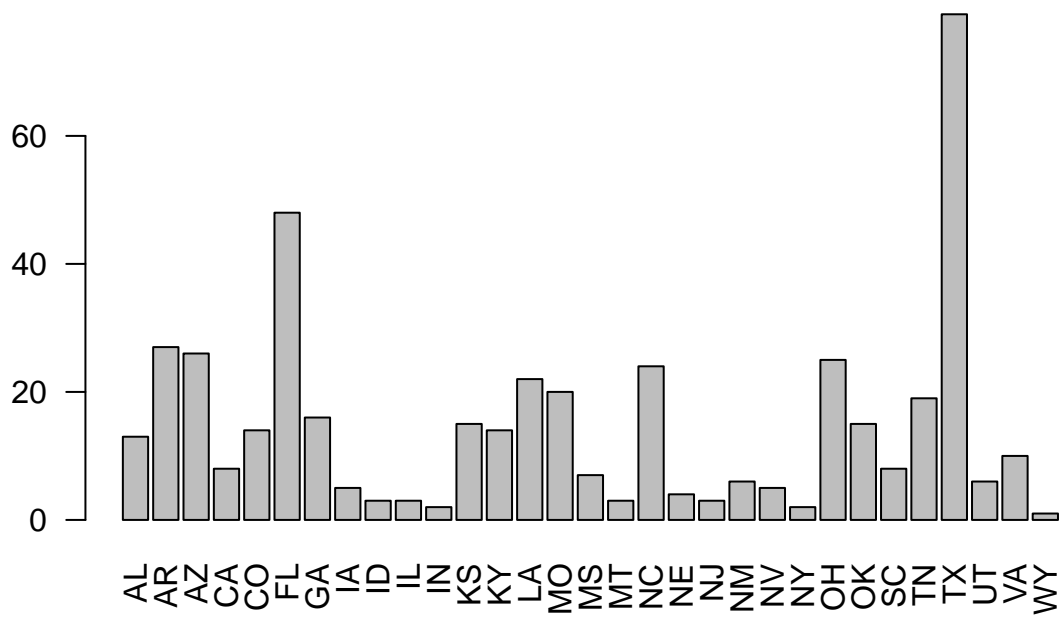
```
dim(dept_info)
```

```
## [1] 60  2
```

```
head(str_info)
```

```
##      Store              City State   Zip
## 1      2 ST. PETERSBURG          FL 33710
## 2      3 ST. LOUIS              MO 63126
## 3      4 LITTLE ROCK            AR 72201
## 4      7 FORT WORTH             TX 76137
## 5      9 TEMPE                  AZ 85281
## 6     60 ASPEN                  CO 81611
```

```
state_table <- data.frame(table(str_info$State))
barplot(table(str_info$State), las = 2, cex.names = 1)
```



```
city_table <- table(str_info$City)
city_table[order(city_table, decreasing = TRUE)]
```

```
##
## LITTLE ROCK          GILBERT          HOUSTON
##                    15              7              7
## OLATHE                SAN ANTONIO      BATON ROUGE
##                    7              7              6
## CINCINNATI            LOUISVILLE      MABELVALE
##                    6              6              5
## NASHVILLE            SALISBURY         TULSA
##                    5              5              5
## ARLINGTON            DALLAS            FORT WORTH
##                    4              4              4
```

## FT. WORTH	PHOENIX	RICHMOND	
##	4	4	4
## ST. LOUIS	TOLEDO	VALDOSTA	
##	4	4	4
## AUSTIN	CHARLOTTE	COLUMBIA	
##	3	3	3
## EL PASO	GARDENA	JACKSONVILLE	
##	3	3	3
## LAS VEGAS	LEXINGTON	MEMPHIS	
##	3	3	3
## OKLAHOMA CITY	TAMPA	TEMPE	
##	3	3	3
## TUCSON	AKRON	ALBUQUERQUE	
##	3	2	2
## ASHEVILLE	ATLANTA	AUGUSTA	
##	2	2	2
## AURORA	CHESAPEAKE	CLARKSVILLE	
##	2	2	2
## COLORADO SPRINGS	FRANKLIN	FT WORTH	
##	2	2	2
## HUNTSVILLE	INDEPENDENCE	JEFFERSONTOWN	
##	2	2	2
## KANSAS CITY	KNOXVILLE	LITTLETON	
##	2	2	2
## MESA	METAIRIE	MIAMI	
##	2	2	2
## MOBILE	MONTGOMERY	NEW YORK	
##	2	2	2
## OMAHA	ORLANDO	PLANO	
##	2	2	2
## RALEIGH	SARASOTA	SHREVEPORT	
##	2	2	2
## TALLAHASSEE	WICHITA	WINSTON-SALEM	
##	2	2	2
## ABILENE	AIKEN	ALBANY	
##	1	1	1
## ALEXANDRIA	ALPHARETTA	ALTAMONTE SPRINGS	
##	1	1	1
## AMARILLO	ANTIOCH	ASHEBORO	
##	1	1	1
## ASHTABULA	ASPEN	AUBURN	
##	1	1	1
## BARTLESVILLE	BEACHWOOD	BEAUMONT	
##	1	1	1
## BILLINGS	BILOXI	BOARDMAN	
##	1	1	1
## BOISE	BONITA SPRINGS	BOSSIER CITY	
##	1	1	1
## BOWLING GREEN	BOYNTON BEACH	BRADENTON	
##	1	1	1
## BRANDON	BROOMFIELD	BROWNSVILLE	
##	1	1	1
## BUFORD	CANTON	CARSON	
##	1	1	1

## CARY		CEDAR PARK	CENTENNIAL	
##	1		1	1
## CHANDLER		CHAPEL HILL	CHARLESTON	
##	1		1	1
## CHATTANOOGA		CHESTERFIELD	CHEYENNE	
##	1		1	1
## CLEARWATER		CLEVELAND	CLOVIS	
##	1		1	1
## COLLEGE STATION		COLLIERVILLE	COLONIAL HEIGHTS	
##	1		1	1
## COLUMBUS		CORAL SPRINGS	CORALVILLE	
##	1		1	1
## CORPUS CHRISTI		COUNCIL BLUFFS	CRESTVIEW HILLS	
##	1		1	1
## DAVENPORT		DAYTON	DAYTONA BEACH	
##	1		1	1
## DECATUR		DENTON	DOTHAN	
##	1		1	1
## DOUGLASVILLE		DURHAM	EL CENTRO	
##	1		1	1
## ELYRIA		ENID	EUCLID	
##	1		1	1
## FAIRVIEW HEIGHTS		FAIRVIEW PARK	FARMINGTON	
##	1		1	1
## FAYETTEVILLE		FLAGSTAFF	FLORENCE	
##	1		1	1
## FLORISSANT		FORT SMITH	FRIENDSWOOD	
##	1		1	1
## FT MYERS		FT. LAUDERDALE	GAINESVILLE	
##	1		1	1
## GARLAND		GASTONIA	GLEN ALLEN	
##	1		1	1
## GLENDALE		GOODLETTSVILLE	GRAND ISLAND	
##	1		1	1
## GREELEY		GREENSBORO	GREENVILLE	
##	1		1	1
## GRETN		HAMMOND	HARLINGEN	
##	1		1	1
## HATTIESBURG		HELENA	HENDERSON	
##	1		1	1
## HERMITAGE		HICKORY	HIGH POINT	
##	1		1	1
## HOT SPRINGS		HOUMA	HUMBLE	
##	1		1	1
## HURST		HUTCHINSON	IDAHO FALLS	
##	1		1	1
## IRVING		JACKSON	JEFFERSON CITY	
##	1		1	1
## JENSEN BEACH		JONESBORO	KENNER	
##	1		1	1
## KILLEEN		LAFAYETTE	LAKE CHARLES	
##	1		1	1
## LAKE JACKSON		LAKE WALES	LAKELAND	
##	1		1	1

## LAKEWOOD	LAREDO	LAS CRUCES	
##	1	1	1
## LAWTON	LEE'S SUMMIT	LEWISVILLE	
##	1	1	1
## LINCOLN	LITHONIA	LOGAN	
##	1	1	1
## LONGMONT	LONGVIEW	LOS ANGELES	
##	1	1	1
## LUBBOCK	LYNDHURST	MACON	
##	1	1	1
## MANHATTAN	MARION	MARREOR	
##	1	1	1
## MARY ESTHER	MCALLEN	MELBOURNE	
##	1	1	1
## MENTOR	MERIDIAN	MERRITT ISLAND	
##	1	1	1
## MESQUITE	MIDLAND	MIDWEST CITY	
##	1	1	1
## MISSION	MISSOULA	MOLINE	
##	1	1	1
## MONMOUTH JUNCTION	MONROE	MURFREESBORO	
##	1	1	1
## MURRAY	MUSKOGEE	MYRTLE BEACH	
##	1	1	1
## NAPLES	NEW ORLEANS	NEWPORT NEWS	
##	1	1	1
## NILES	NORFOLK	NORMAN	
##	1	1	1
## NORTH CHARLESTON	NORTH LITTLE ROCK	NORTH OLMSTED	
##	1	1	1
## OCOEE	ODESSA	OGDEN	
##	1	1	1
## ORANGE PARK	OVERLAND PARK	OVIEDO	
##	1	1	1
## OXFORD	PADUCAH	PALMDALE	
##	1	1	1
## PANAMA CITY	PASADENA	PEMBROKE PINES	
##	1	1	1
## PENSACOLA	PINE BLUFF	PINEVILLE	
##	1	1	1
## PLANTATION	POCATELLO	PORT ARTHUR	
##	1	1	1
## PORT CHARLOTTE	PORT RICHEY	PRESCOTT	
##	1	1	1
## PROVO	PUEBLO	RAYTOWN	
##	1	1	1
## RENO	RICHARDSON	RIDGELAND	
##	1	1	1
## ROGERS	SALINA	SAN ANGELO	
##	1	1	1
## SANDY	SANFORD	SANTA FE	
##	1	1	1
## SAVANNAH	SCOTTSDALE	SHAWNEE	
##	1	1	1

## SHERMAN	SIERRA VISTA	SLIDELL	
##	1	1	1
## SOUTHAVEN	SPANISH FORT	SPARTANBURG	
##	1	1	1
## SPRINGFIELD	ST CHARLES	ST GEORGE	
##	1	1	1
## ST LOUIS	ST PETERSBURG	ST. ANN	
##	1	1	1
## ST. JOSEPH	ST. PETERS	ST. PETERSBURG	
##	1	1	1
## STOCKTON	STRONGSVILLE	SUGAR LAND	
##	1	1	1
## TEMPLE	TEXARKANA	TEXAS CITY	
##	1	1	1
## THE WOODLANDS	TOPEKA	TULLAHOMA	
##	1	1	1
## TUSCALOOSA	TYLER	VERO BEACH	
##	1	1	1
## VICKSBURG	VICTORIA	VIRGINIA BEACH	
##	1	1	1
## WACO	WATERLOO	WELLINGTON	
##	1	1	1
## WEST DES MOINES	WEST PALM BEACH	WESTMINSTER	
##	1	1	1
## WICHITA FALLS	WILMINGTON	WINTER PARK	
##	1	1	1
## XXXXXXXXXXXXXXXXXXXX YUMA			
##	1	1	

```
zip_table <- table(str_info$Zip)
zip_table[order(zip_table, decreasing = TRUE)]
```

```
##
## 72201 66062 76137 85233 28146 72103 31601 40299 76011 85281 90248 99999 23235
##      14      7      7      7      5      5      4      3      3      3      3      3      2
## 30909 33710 36117 63126 70802 74135 78216 79925 80021 7071 8810 8852 10019
##      2      2      2      2      2      2      2      2      2      1      1      1      1
## 10036 23060 23233 23320 23321 23452 23510 23602 23834 27103 27105 27203 27262
##      1      1      1      1      1      1      1      1      1      1      1      1      1
## 27407 27511 27514 27615 27616 27707 28054 28134 28211 28212 28216 28403 28602
##      1      1      1      1      1      1      1      1      1      1      1      1      1
## 28805 28806 29212 29223 29301 29406 29407 29577 29607 29803 30022 30038 30135
##      1      1      1      1      1      1      1      1      1      1      1      1      1
## 30346 30363 30519 31206 31419 31707 31909 32073 32114 32225 32246 32256 32301
##      1      1      1      1      1      1      1      1      1      1      1      1      1
## 32303 32405 32504 32569 32605 32701 32765 32771 32789 32803 32809 32904 32952
##      1      1      1      1      1      1      1      1      1      1      1      1      1
## 32966 33026 33071 33172 33189 33304 33388 33401 33414 33426 33511 33607 33612
##      1      1      1      1      1      1      1      1      1      1      1      1      1
## 33625 33761 33809 33859 33901 33948 34102 34135 34205 34238 34239 34668 34761
##      1      1      1      1      1      1      1      1      1      1      1      1      1
## 34957 35405 35601 35630 35801 35806 36203 36303 36527 36606 36830 37013 37040
##      1      1      1      1      1      1      1      1      1      1      1      1      1
## 37067 37072 37076 37129 37207 37211 37215 37221 37388 37421 37919 37924 38017
```

##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	38115	38117	38133	38671	39157	39180	39209	39301	39402	39531	40202	40207	40216
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	40218	40219	40502	40503	40504	41017	42001	42104	43606	43612	43614	43623	44004
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	44035	44060	44070	44113	44122	44126	44132	44136	44322	44333	44446	44512	44718
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	45005	45211	45236	45245	45246	45249	45251	47129	47374	50266	50702	51503	52011
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	52241	52806	59102	59601	59801	61265	62208	62959	63017	63034	63074	63101	63117
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	63129	63301	63376	64055	64057	64063	64114	64133	64155	64506	65109	65203	65804
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	66205	66214	66502	66604	67207	67209	67401	67501	68114	68144	68505	68803	70002
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	70006	70053	70065	70072	70127	70364	70403	70460	70503	70601	70801	70806	70815
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	70836	71104	71111	71118	71203	71301	71601	71913	72116	72205	72401	72703	72756
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	72903	73072	73110	73118	73134	73149	73501	73703	74006	74110	74133	74134	74401
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	74804	75040	75062	75067	75075	75081	75090	75093	75150	75207	75225	75237	75240
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	75503	75605	75703	76015	76053	76111	76116	76132	76205	76308	76502	76543	76710
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	76904	77024	77036	77055	77056	77060	77070	77082	77338	77380	77479	77506	77546
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	77566	77591	77642	77706	77840	77904	78041	78205	78218	78238	78247	78256	78411
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	78501	78526	78552	78613	78746	78752	79121	79414	79606	79705	79762	79912	80012
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	80030	80122	80123	80124	80226	80501	80631	80909	80920	81008	81611	82009	83202
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	83404	83704	84070	84107	84341	84405	84601	84790	85015	85032	85033	85051	85202
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	85206	85226	85251	85308	85365	85635	85705	85711	85716	86004	86303	87110	87114
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	87402	87505	88011	88101	89014	89107	89109	89119	89511	90079	90746	92243	93551
##	1	1	1	1	1	1	1	1	1	1	1	1	1
##	95207												
##	1												