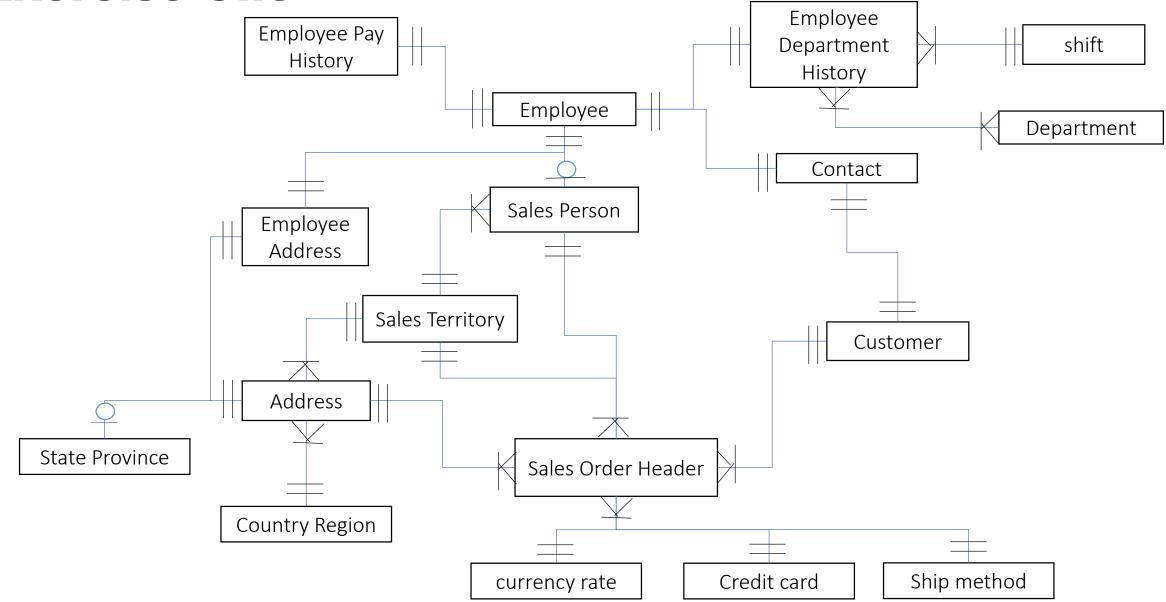
# Reporting Challenge

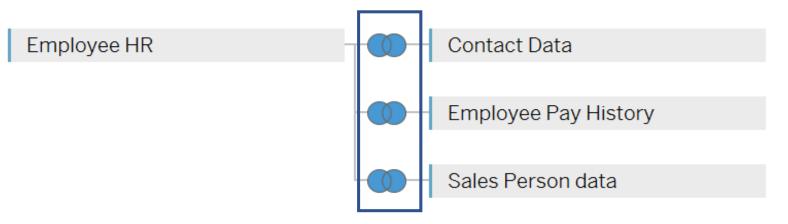
Miya Wang 7/11/2017

# **Exercise One**



### **Exercise Two**

(290, 41)



- Full Outer Join of three spreadsheets
- Result in a dataset with 290 records and 41 features

#### **Exercise Three**

	Business Entity ID	Job Title	Rate	Bonus	Sales Quota	Sales Last Year	Name
0	1.0	Chief Executive Officer	125.5000	NaN	NaN	NaN	Ken Sánchez
26	25.0	Vice President of Production	84.1346	NaN	NaN	NaN	James Hamilton
288	273.0	Vice President of Sales	72.1154	NaN	NaN	NaN	Brian Welcker
1	2.0	Vice President of Engineering	63.4615	NaN	NaN	NaN	Terri Duffy
248	234.0	NaN	60.0962	NaN	NaN	NaN	Laura Norman

- Sort by Salary Rate
- Total the Columns
- Merge First Name and Last Name column into One

#### **Exercise Three**

1. Who has the paid the highest salary rate in the firm? What is their job title?

2. Who got the highest Bonus last year? How much?

3. Which salesperson had the highest sales last year? How much?

4. Did any of our salespeople not meet their quota? If so, who was it?

#### **Exercise Three**

5. What is the mean rate of pay? Median? Mode?

```
df 1['Rate'].dropna().describe()
         290.000000
count
          18.188257
mean
          12.290579
std
           9.000000
min
25%
          11.000000
50%
          14.000000
75%
          23.076900
         125.500000
max
Name: Rate, dtype: float64
from collections import Counter
Counter(df 1['Rate'].dropna()).most common(1)
[(9.5, 27)]
```

6. What other interesting insights can be derived?

```
Counter(df_1['Job Title'].dropna()).most_common(10)

[('Production Technician - WC40', 26),
    ('Production Technician - WC50', 26),
    ('Production Technician - WC60', 26),
    ('Production Technician - WC30', 25),
    ('Production Technician - WC20', 22),
    ('Production Technician - WC10', 17),
    ('Production Technician - WC45', 15),
    ('Sales Representative', 14),
    ('Buyer', 9),
    ('Marketing Specialist', 5)]
```

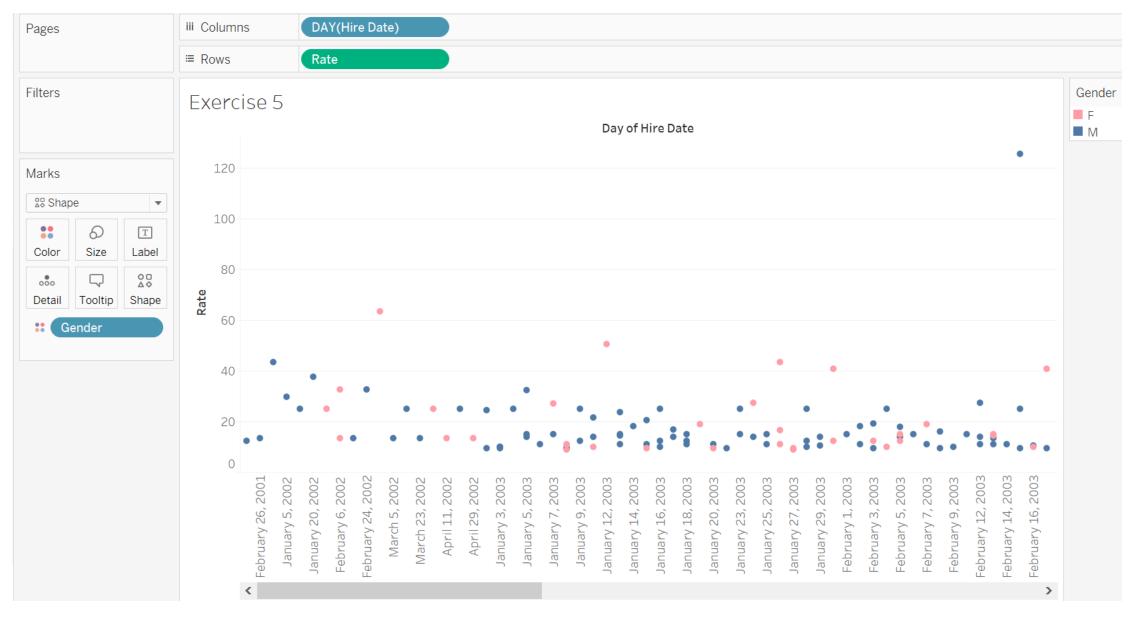
```
df_1_b = df_1.dropna(subset = ['Job Title'])
Counter(df_1_b[df_1_b['Job \
Title'].str.contains("Production \
Technician")]['Rate'].dropna()).most_common()
```

- The most common position in company is Product Technician
- Product technician is usually paid at the rate of 11, 12.5 or 15

## **Exercise Four**



## **Exercise Five**



# **Exercise Six**



# **Exercise Six**

