

Data Aggregation Assignment (Human Resources)

Name: Bryan Armstrong
Student ID: 100271977

- 1) Created the 2 tables to show counts of salespeople with attrition and with no attrition.

With Attrition used the following schema:

```
1 SELECT COUNT(Attrition) AS attrition
2 FROM employee_sales
3 WHERE Attrition LIKE "%Yes%";
```

Execute Save As Insert UDF Visual Explain

RESULTS LOG VISUAL EXPLAIN TEZ UI

Filter columns x

attrition

92

Without Attrition used the following schema:

```
1 SELECT COUNT(Attrition) AS NonAttrition
2 FROM employee_sales
3 WHERE Attrition LIKE "%No%";
```

Execute Save As Insert UDF Visual Explain

RESULTS LOG VISUAL EXPLAIN TEZ UI

Filter columns x

nonattrition

354

2) Average monthly income table with schema:

```
1 SELECT AVG(MonthlyIncome) AS average_monthly_income
2 FROM employee_sales
```

✓ Execute Save As Insert UDF Visual Explain

RESULTS LOG VISUAL EXPLAIN TEZ UI

Filter columns ✕

average_monthly_income

6493.877551020408

Minimum monthly income with schema:

```
1 SELECT MIN(MonthlyIncome) AS min_monthly_income
2 FROM employee_sales
```

✓ Execute Save As Insert UDF Visual Explain

RESULTS LOG VISUAL EXPLAIN TEZ UI

Filter columns ✕

min_monthly_income

1000

Maximum monthly income with schema:

```
1 SELECT MAX(MonthlyIncome) AS max_monthly_income
2 FROM employee_sales
```

✓ Execute Save As Insert UDF Visual Explain

RESULTS LOG VISUAL EXPLAIN TEZ

Filter columns ✕

max_monthly_income
20000

- 3) Created table and schema counting the total sales people with attrition and the monthly income

```
1 SELECT SUM(MonthlyIncome) AS monthlyincome, COUNT(Attrition) AS count
2 FROM employee_sales
3 WHERE Attrition LIKE "%Yes%";
```

✓ Execute Save As Insert UDF Visual Explain

RESULTS LOG VISUAL EXPLAIN TEZ UI

Filter columns ✕

monthlyincome	count
544000	92

Created table and schema counting the total sales people with without attrition and the monthly income

```
1 SELECT SUM(MonthlyIncome) AS monthlyincome, COUNT(Attrition) AS count
2 FROM employee_sales
3 WHERE Attrition LIKE "%No%";
```

✓ Execute Save As Insert UDF Visual Explain

RESULTS LOG VISUAL EXPLAIN TEZ UI

Filter columns ✕

monthlyincome	count
2560000	354