**Data Aggregation Activity**

*From previous***~(a.**

Create table employee\_sales

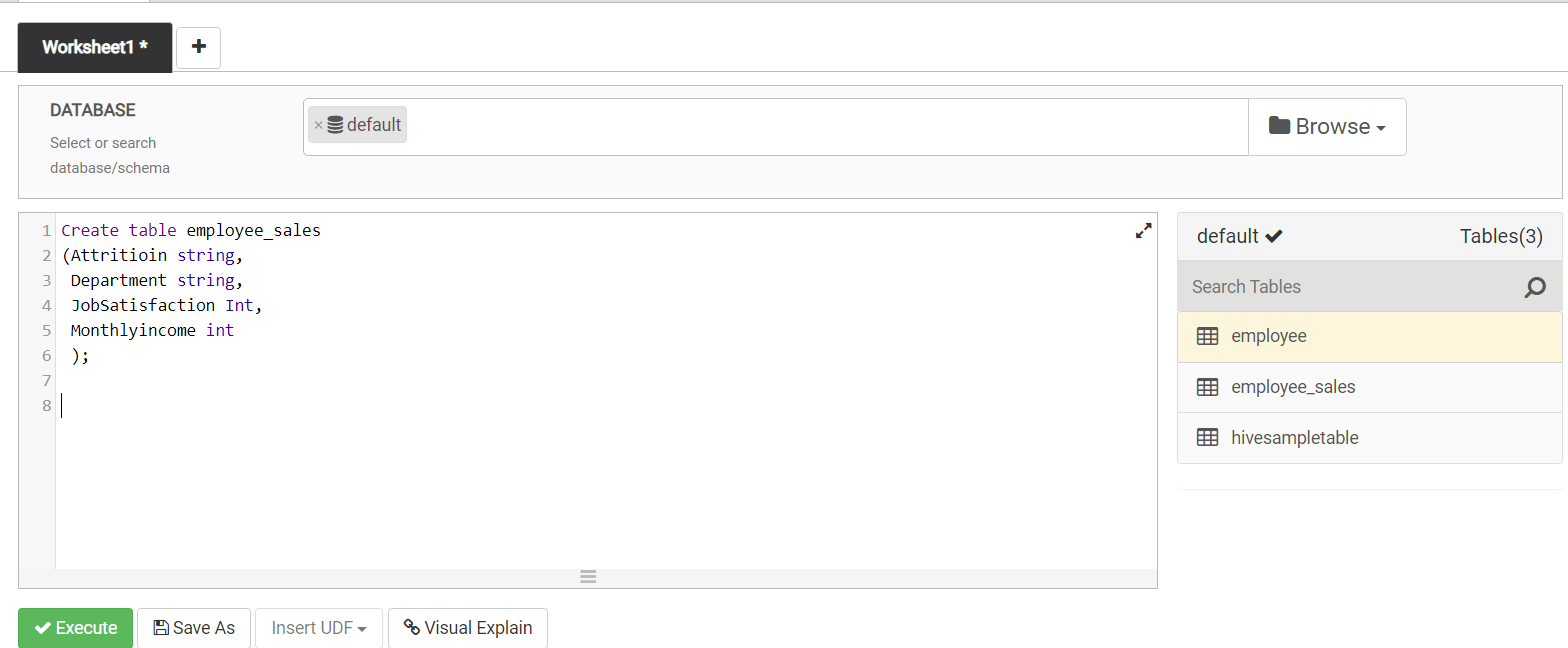
(Attrition string,

Department string,

JobSatisfaction Int,

Monthlyincome int

);

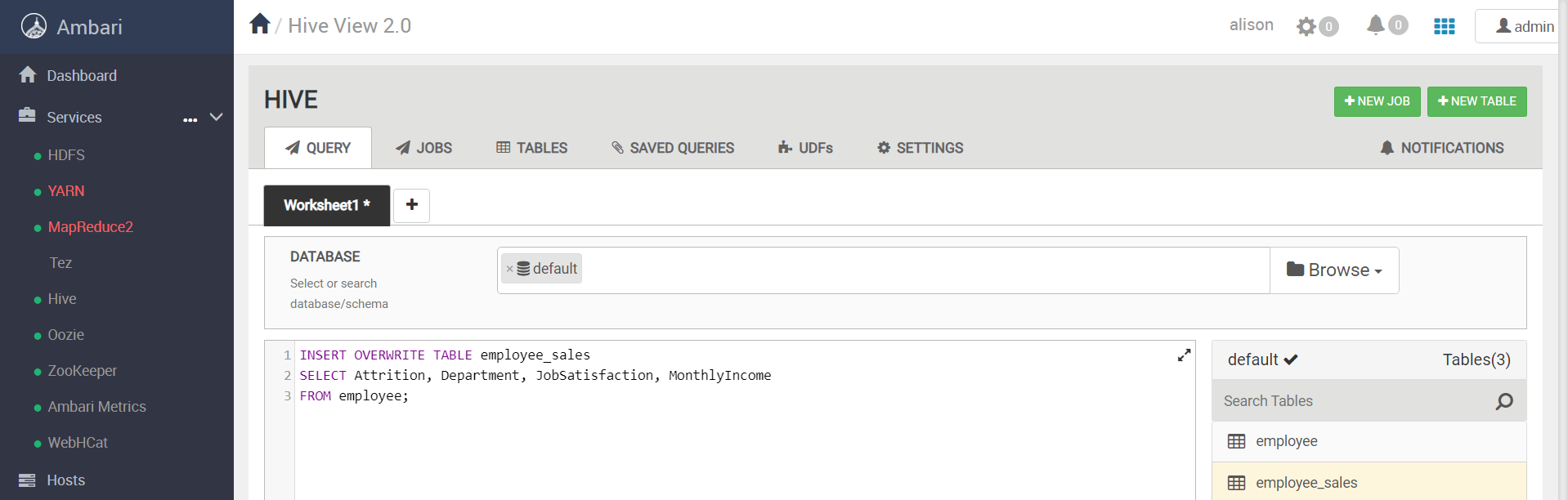


**b.**

*INSERT OVERWRITE TABLE employee\_sales*

*Select Attrition, Department, JobSatisfaction, MonthlyIncome*

*From employee;*

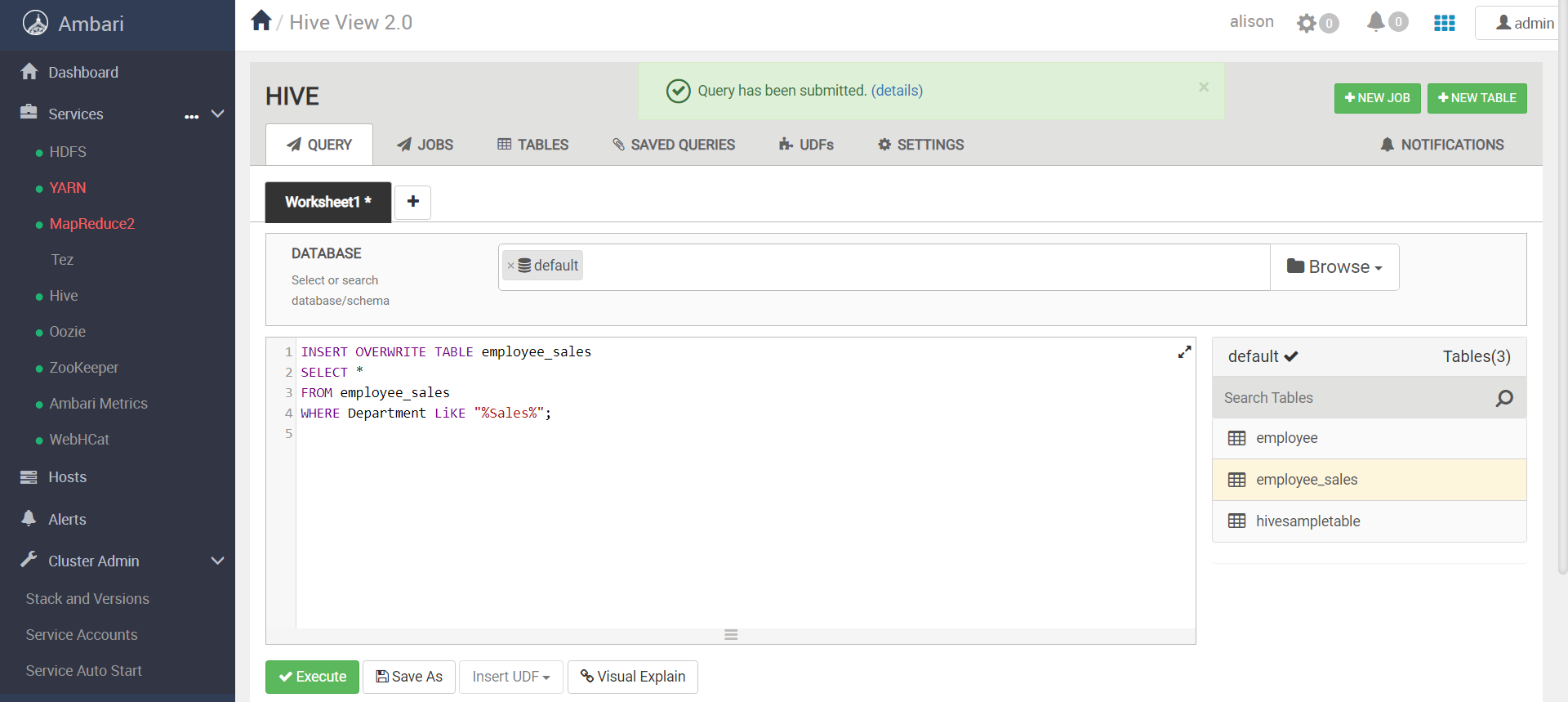


**c.**

*INSERT OVERWRITE TABLE employee\_sales*

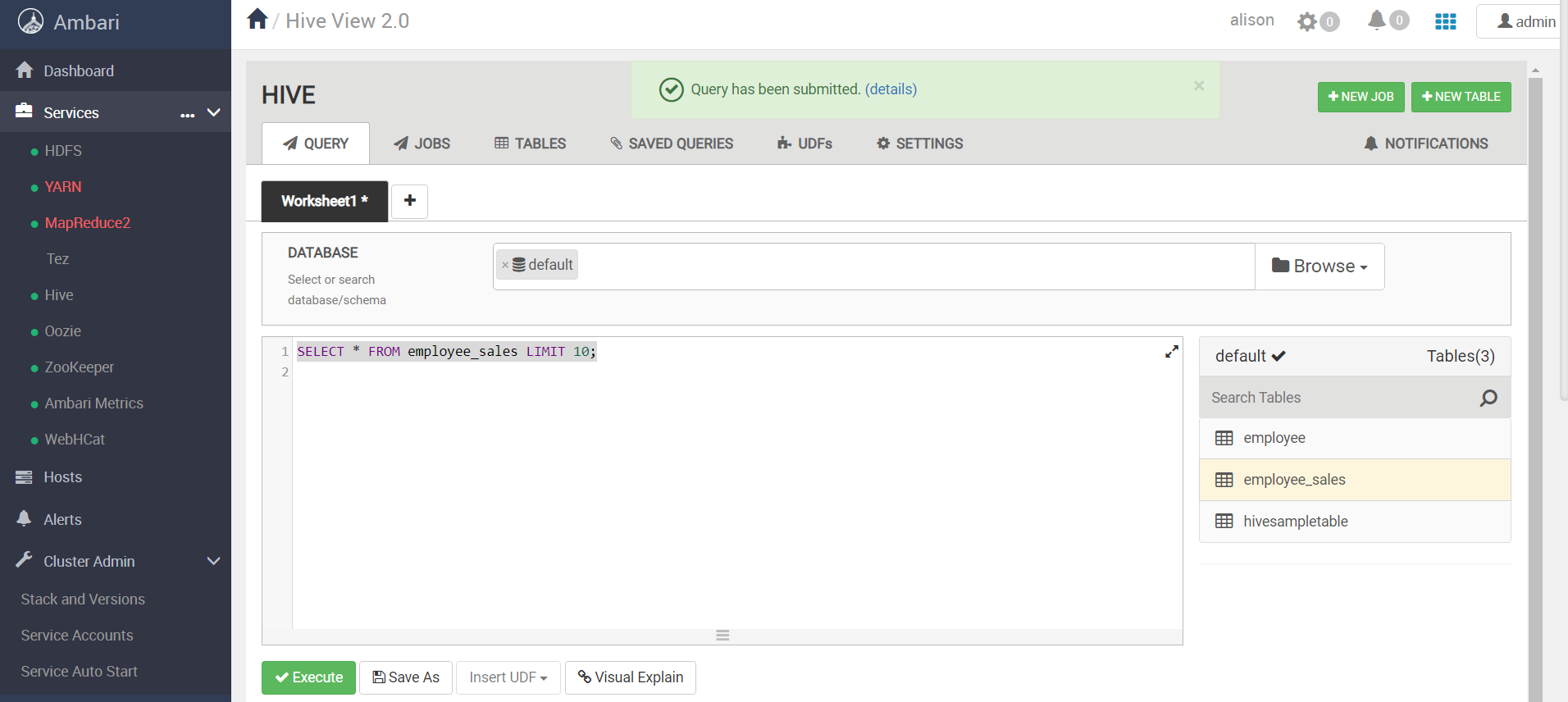
*SELECT \* FROM employee\_sales*

*WHERE Department LiKE "%Sales%";*



**d.**

SELECT \* FROM employee\_sales LIMIT 10;



**e.) ~**

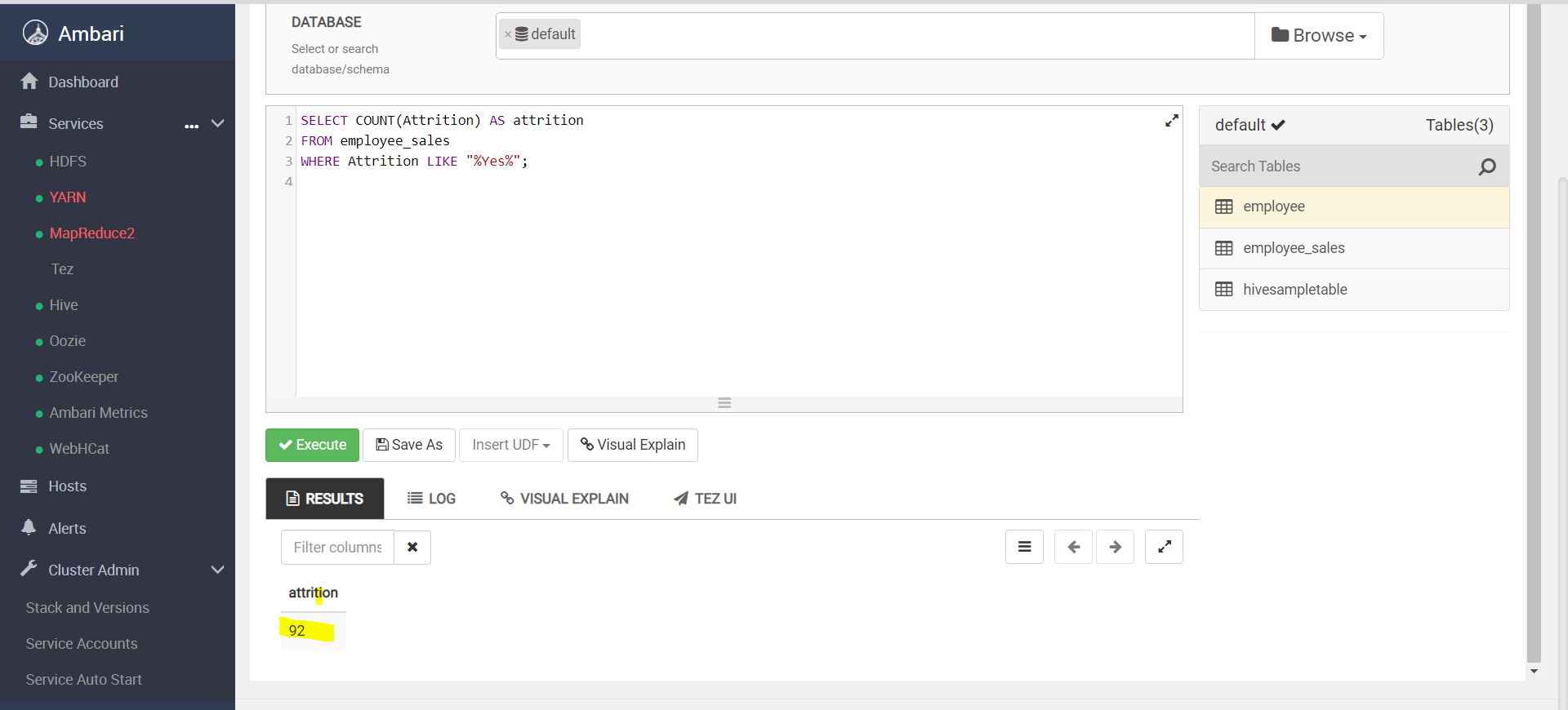
1. **Create 2 tables. The first table shows how many salespeople have attrition. Store this information in a column called “attrition”. The second table counts how many salespeople have no attrition. Store this information in a column called “Non Attrition”.**

**Attrition table**

SELECT COUNT(Attrition) AS attrition

FROM employee\_sales

WHERE Attrition LIKE "%Yes%";

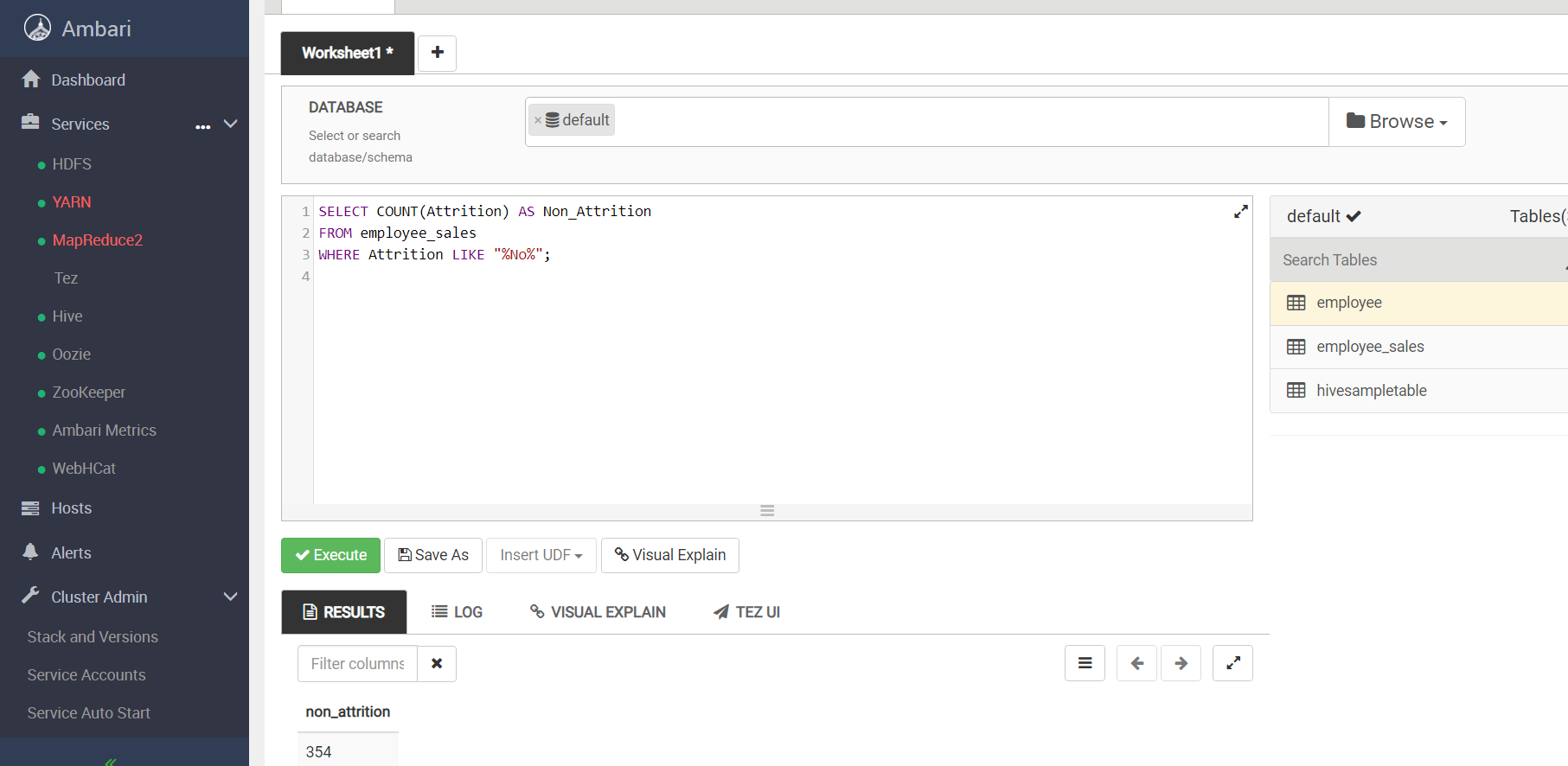


**Non\_Attrition table**

SELECT COUNT(Attrition) AS Non\_Attrition

FROM employee\_sales

WHERE Attrition LIKE "%No%";

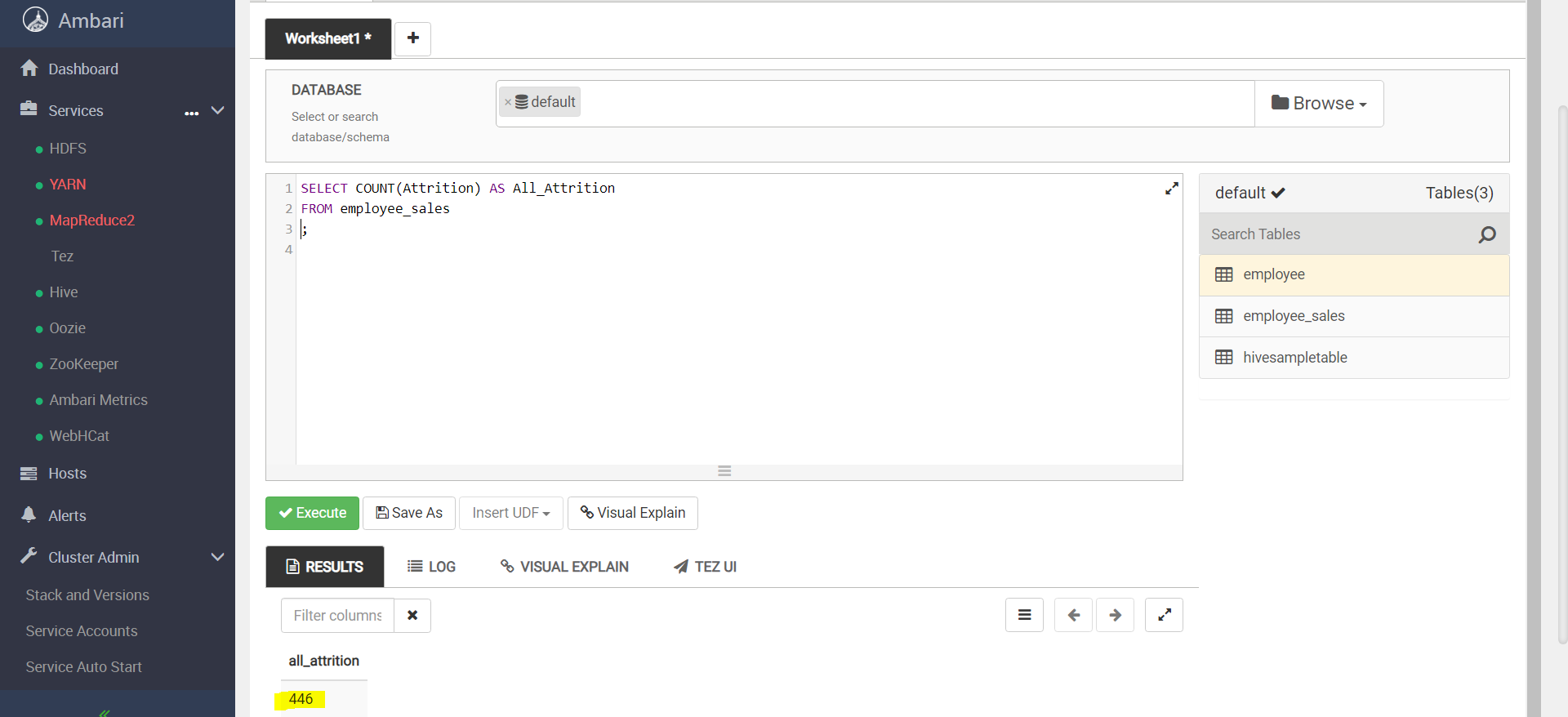


**All\_Attrition (92 + 354 = 446)**

*\*Attrition+ Non\_Attrition = All\_attrition*

SELECT COUNT(Attrition) AS All\_Attrition

FROM employee\_sales ;



1. **Create 3 statistics tables (average, min, max) showing the monthly income for: all salespeople, those with attrition and those without attrition. For each table, label the columns “average\_monthly\_income”, “min\_monthly\_income”, and “max\_monthly\_income”.**

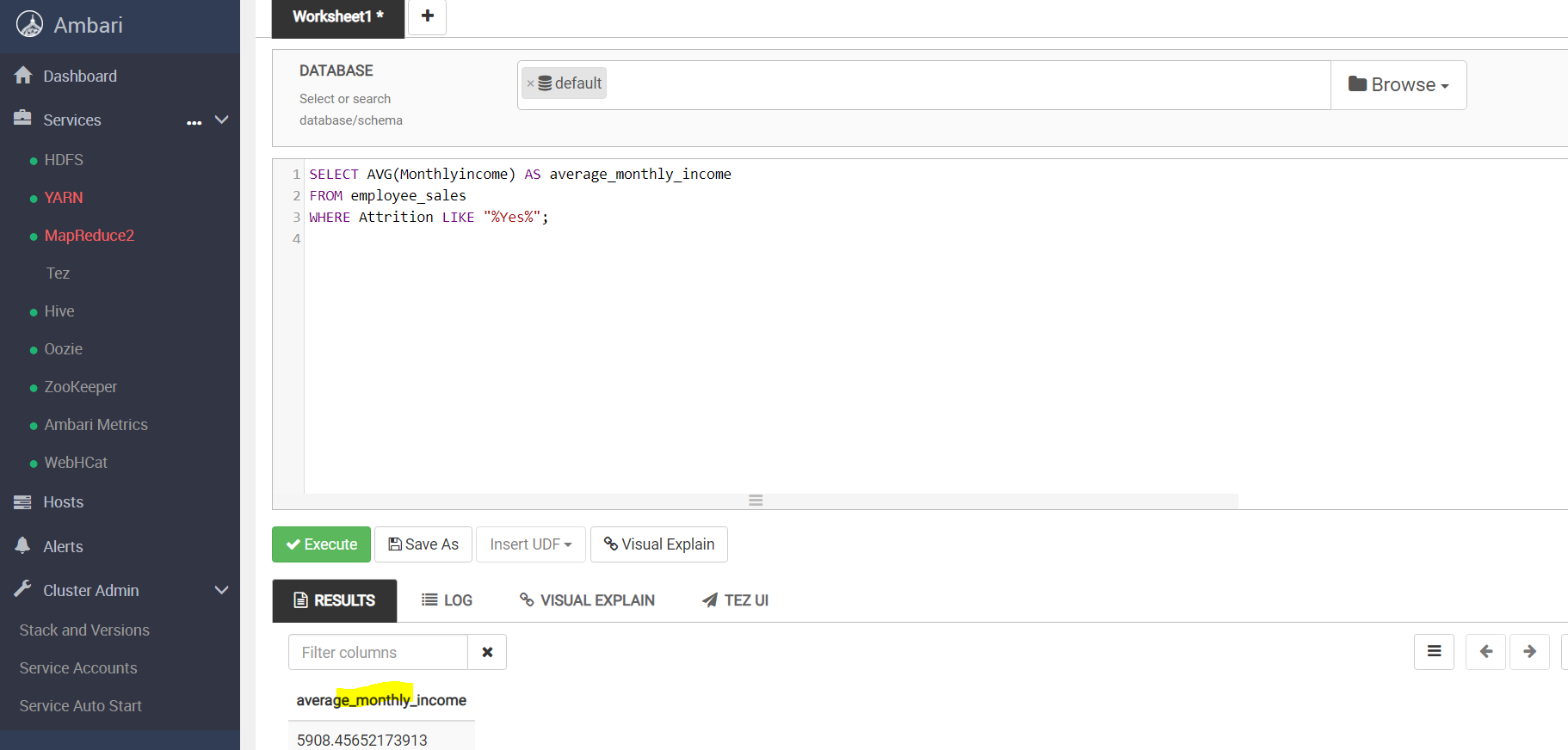
**a. Attrition table**

*i) average\_monthly\_income*

SELECT AVG(Monthlyincome) AS average\_monthly\_income

FROM employee\_sales

WHERE Attrition LIKE "%Yes%";

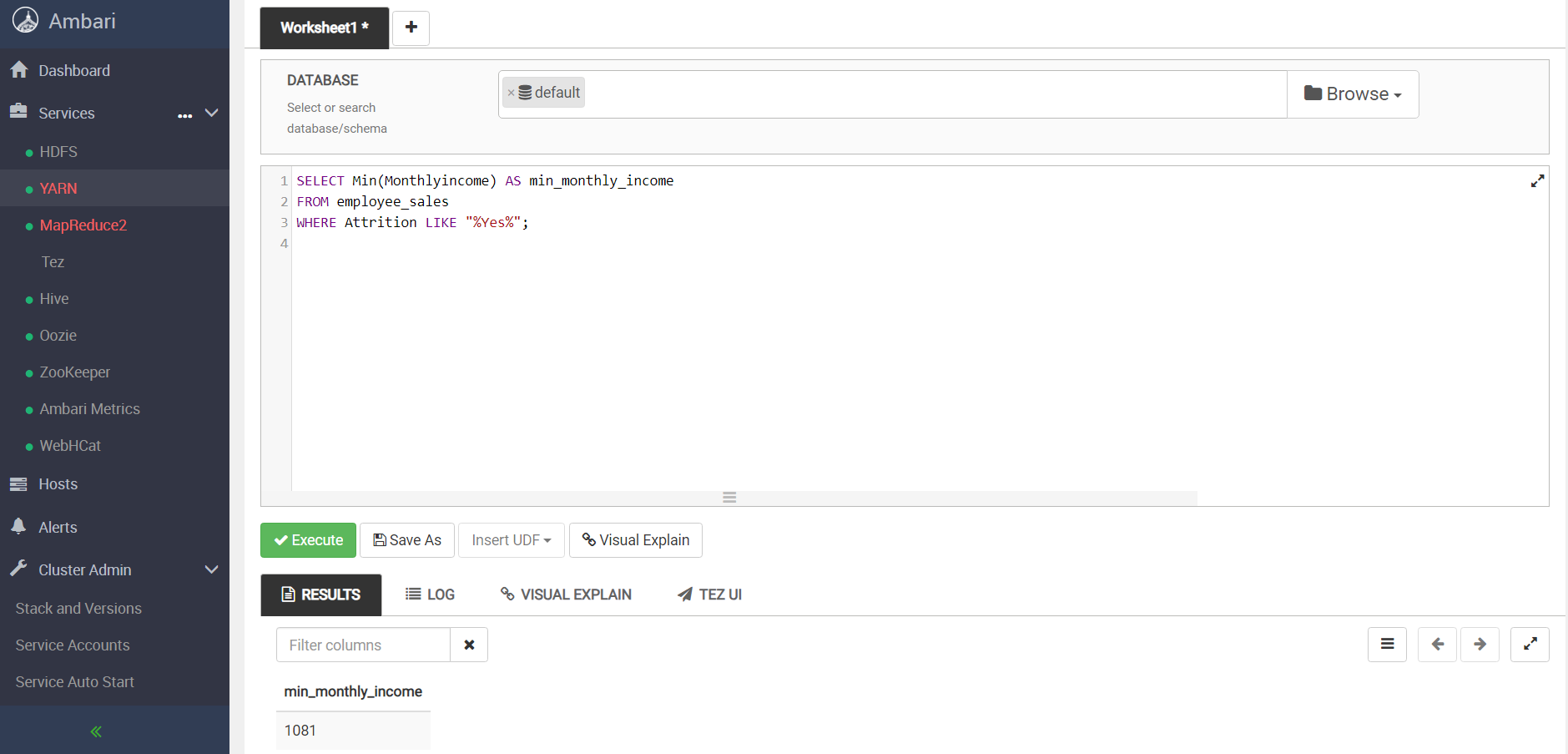


*ii) min\_monthly\_income*

SELECT Min(Monthlyincome) AS min\_monthly\_income

FROM employee\_sales

WHERE Attrition LIKE "%Yes%";

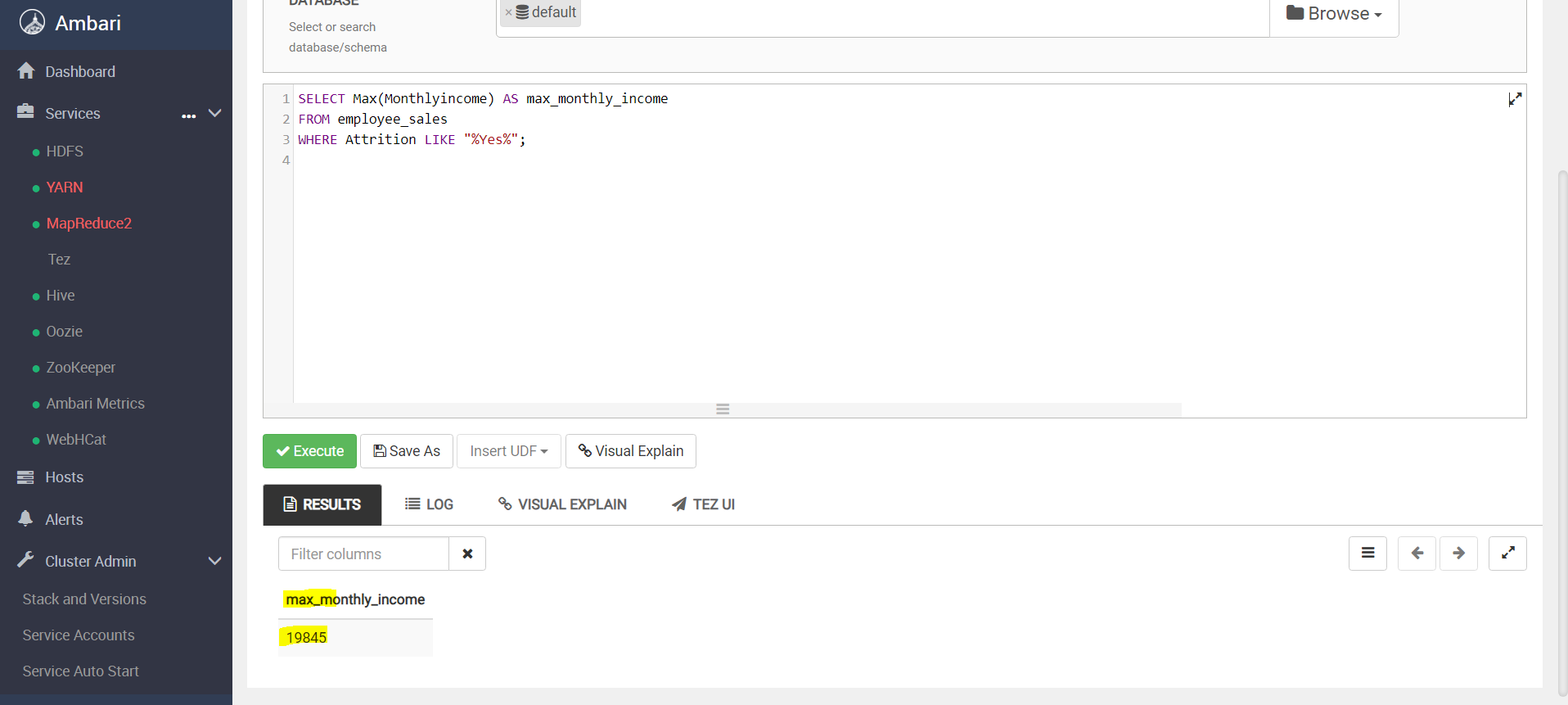


*iii) max\_monthly\_income*

SELECT Max(Monthlyincome) AS max\_monthly\_income

FROM employee\_sales

WHERE Attrition LIKE "%Yes%";



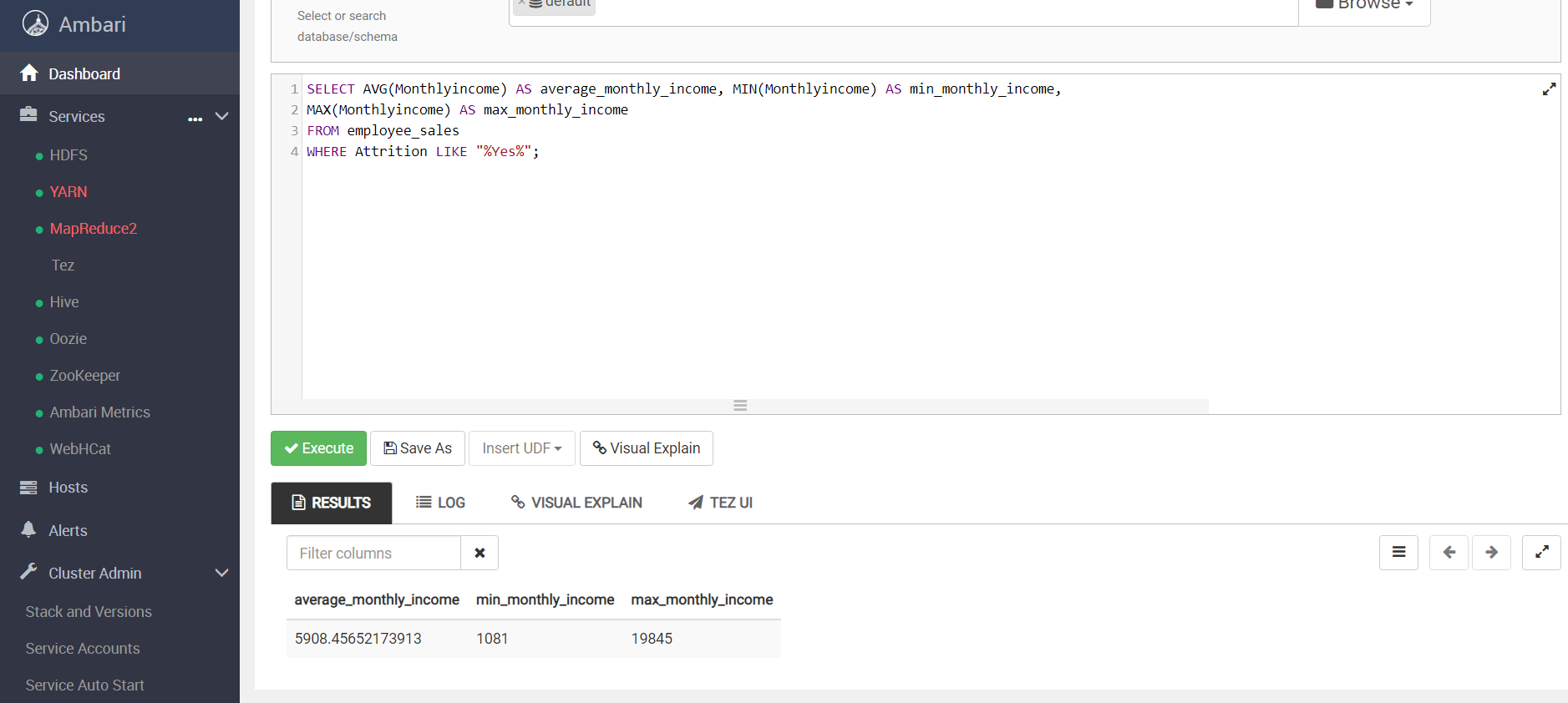
***iv) combined attrition table (avg, min,max)***

SELECT AVG(Monthlyincome) AS average\_monthly\_income, MIN(Monthlyincome) AS min\_monthly\_income,

MAX(Monthlyincome) AS max\_monthly\_income

FROM employee\_sales

WHERE Attrition LIKE "%Yes%";



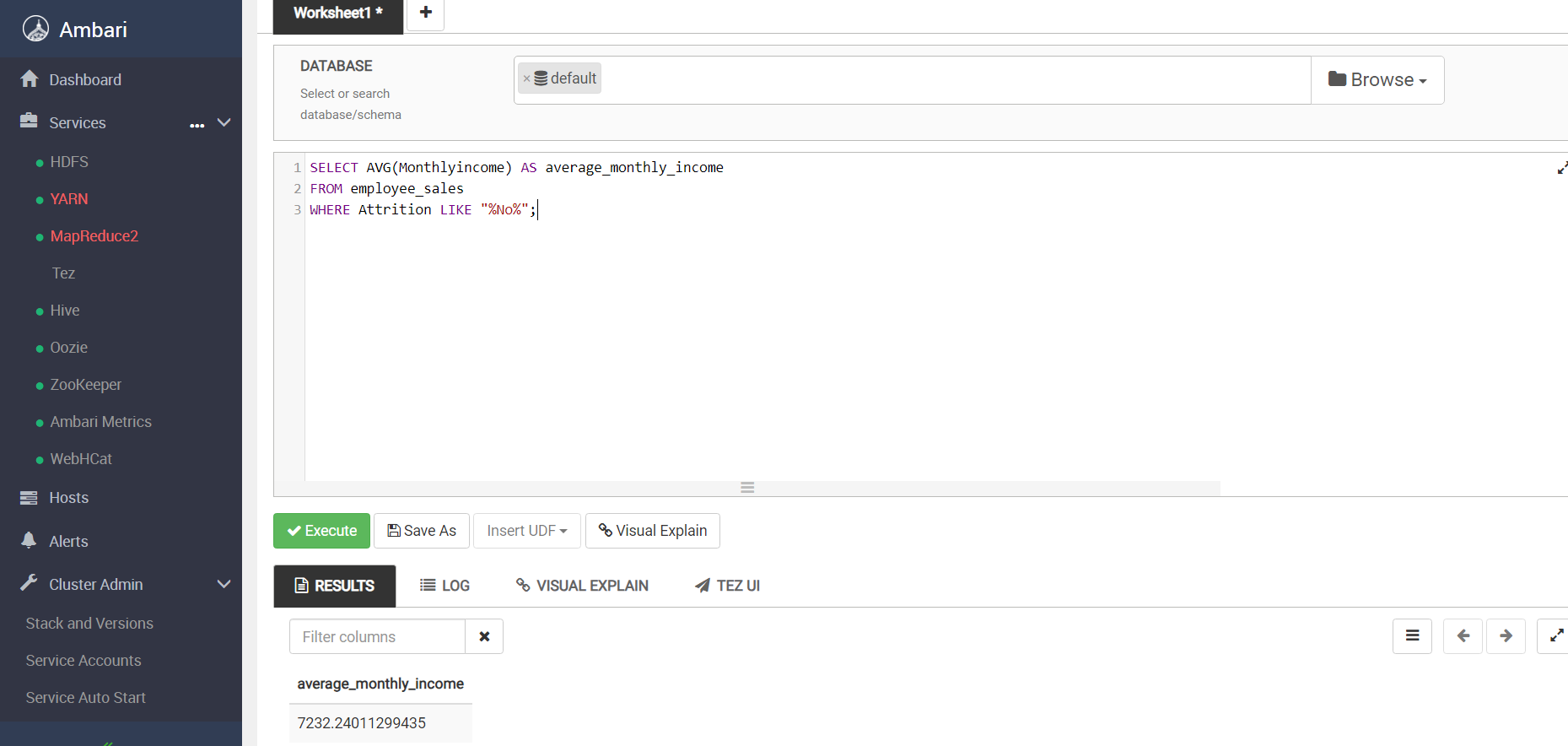
**b. Non\_Attrition table**

*i) average\_monthly\_income*

SELECT AVG(Monthlyincome) AS average\_monthly\_income

FROM employee\_sales

WHERE Attrition LIKE "%No%";



*ii) min\_monthly\_income*

SELECT Min(Monthlyincome) AS min\_monthly\_income

FROM employee\_sales

WHERE Attrition LIKE "%No%";

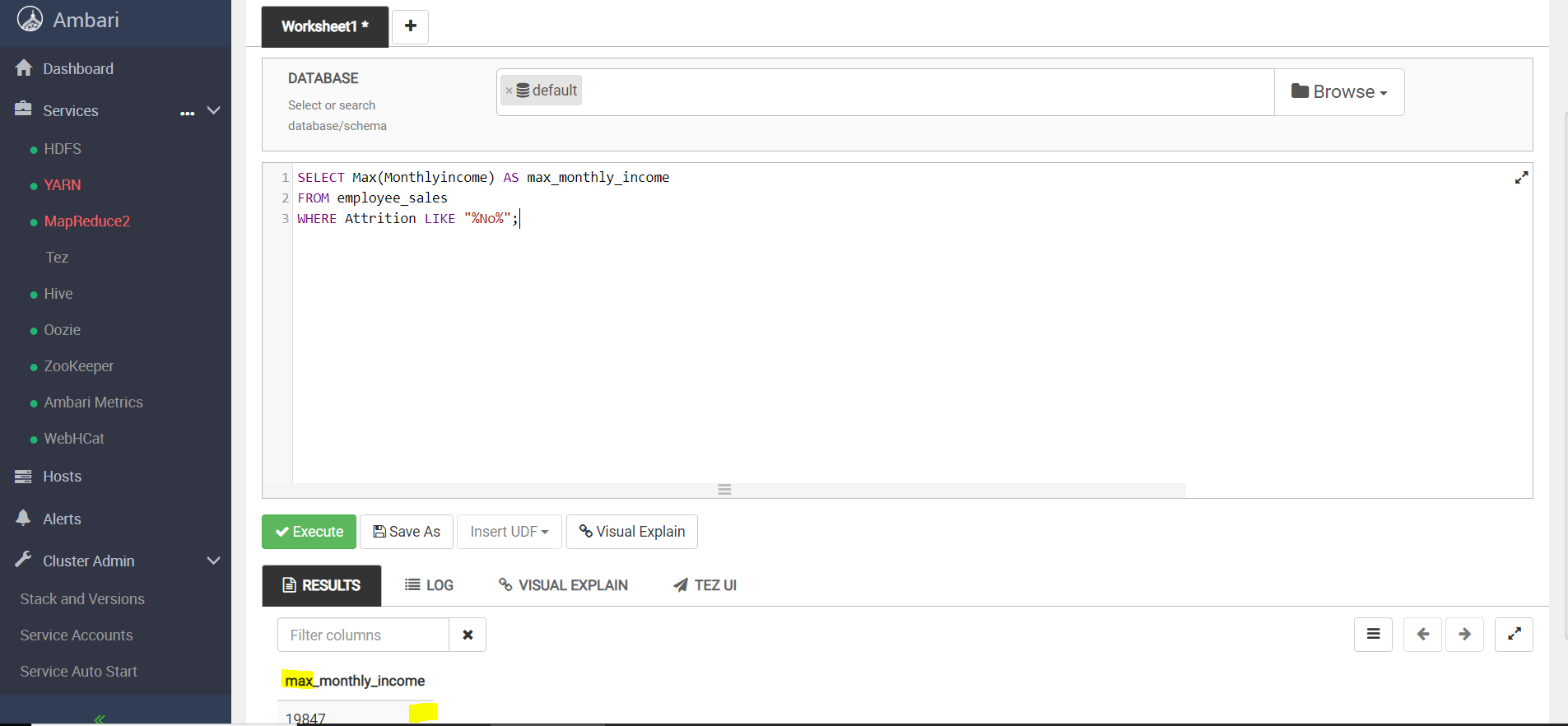


*iii) max\_monthly\_income*

SELECT Max(Monthlyincome) AS max\_monthly\_income

FROM employee\_sales

WHERE Attrition LIKE "%No%";



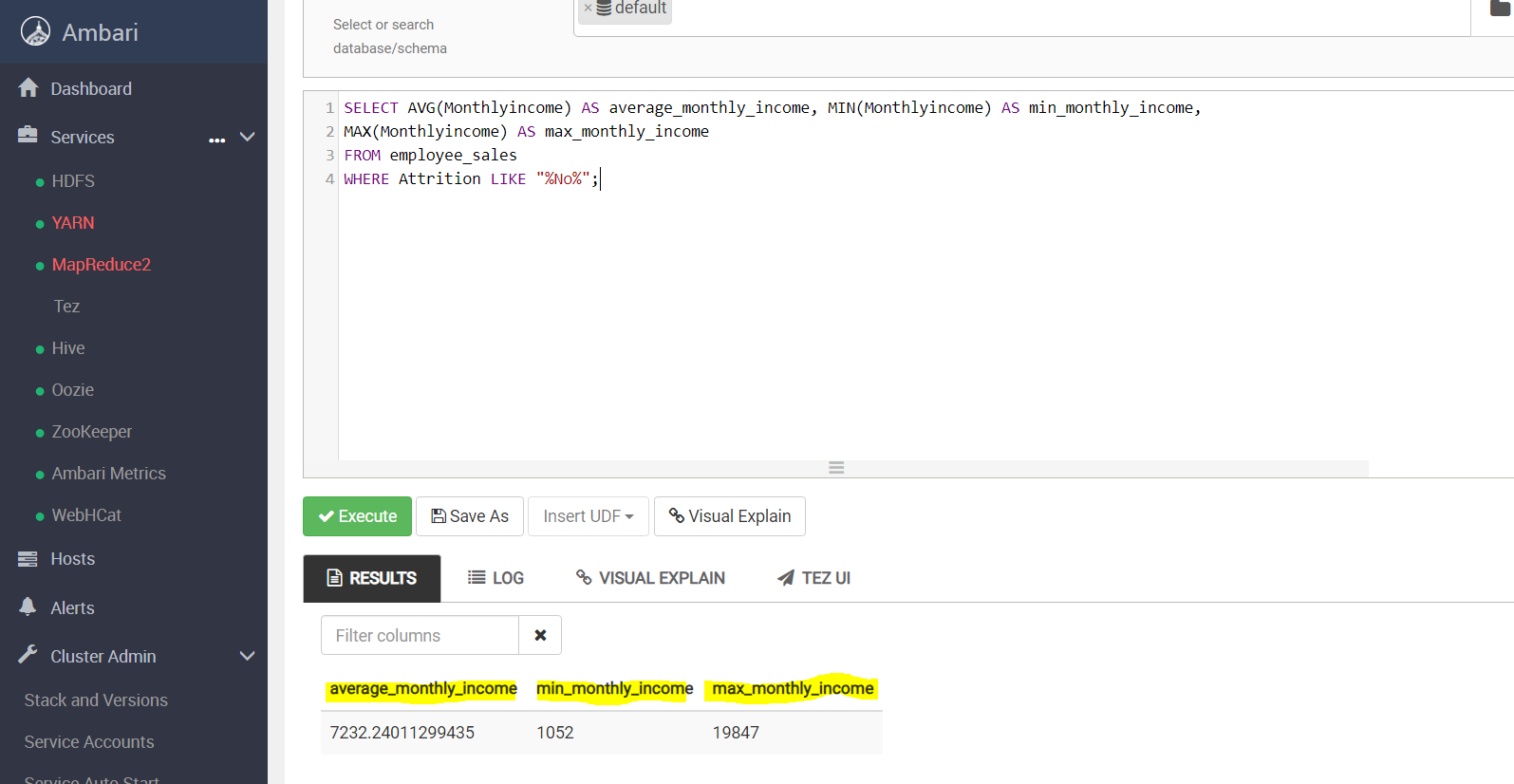
***iv) combined non\_attrition table (avg, min,max)***

SELECT AVG(Monthlyincome) AS average\_monthly\_income, MIN(Monthlyincome) AS min\_monthly\_income,

MAX(Monthlyincome) AS max\_monthly\_income

FROM employee\_sales

WHERE Attrition LIKE "%No%";

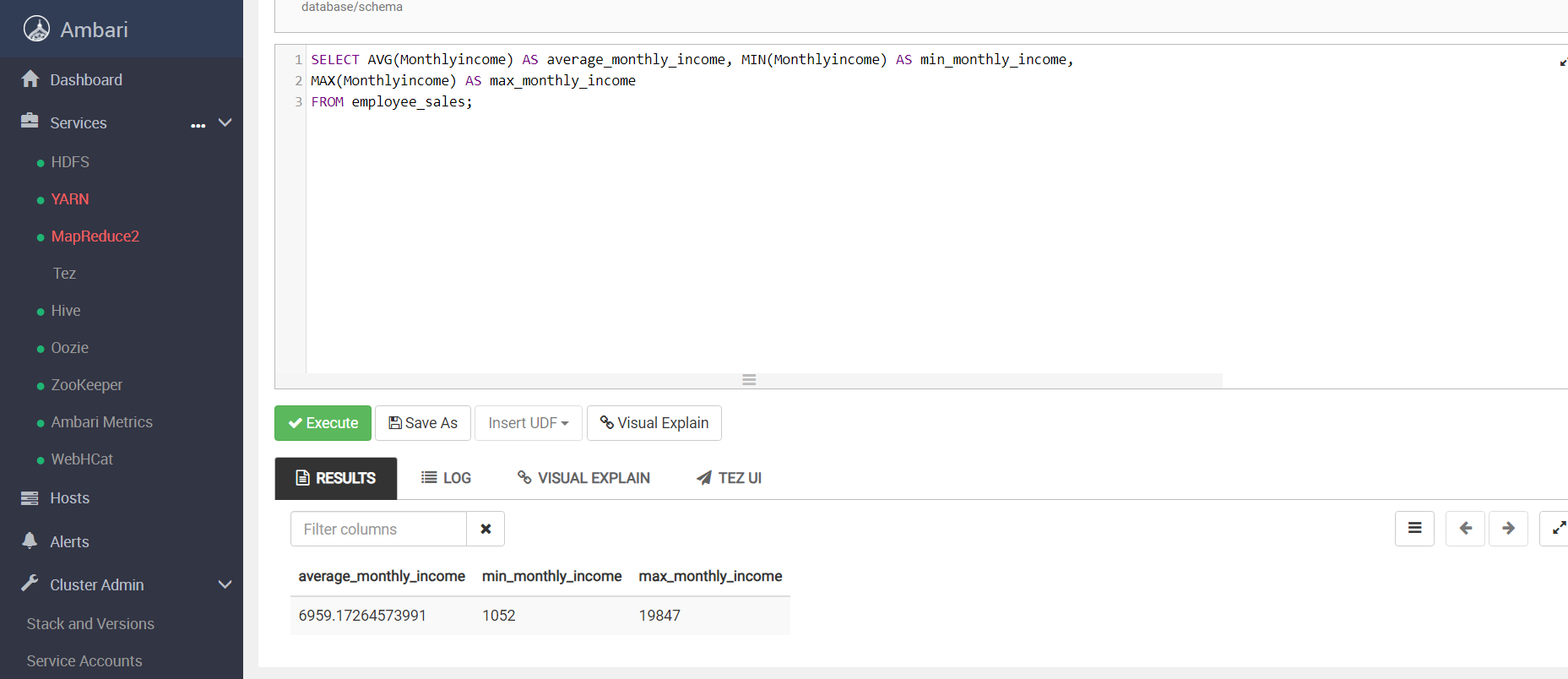


**c. All\_Attrition**

SELECT AVG(Monthlyincome) AS average\_monthly\_income, MIN(Monthlyincome) AS min\_monthly\_income,

MAX(Monthlyincome) AS max\_monthly\_income

FROM employee\_sales;



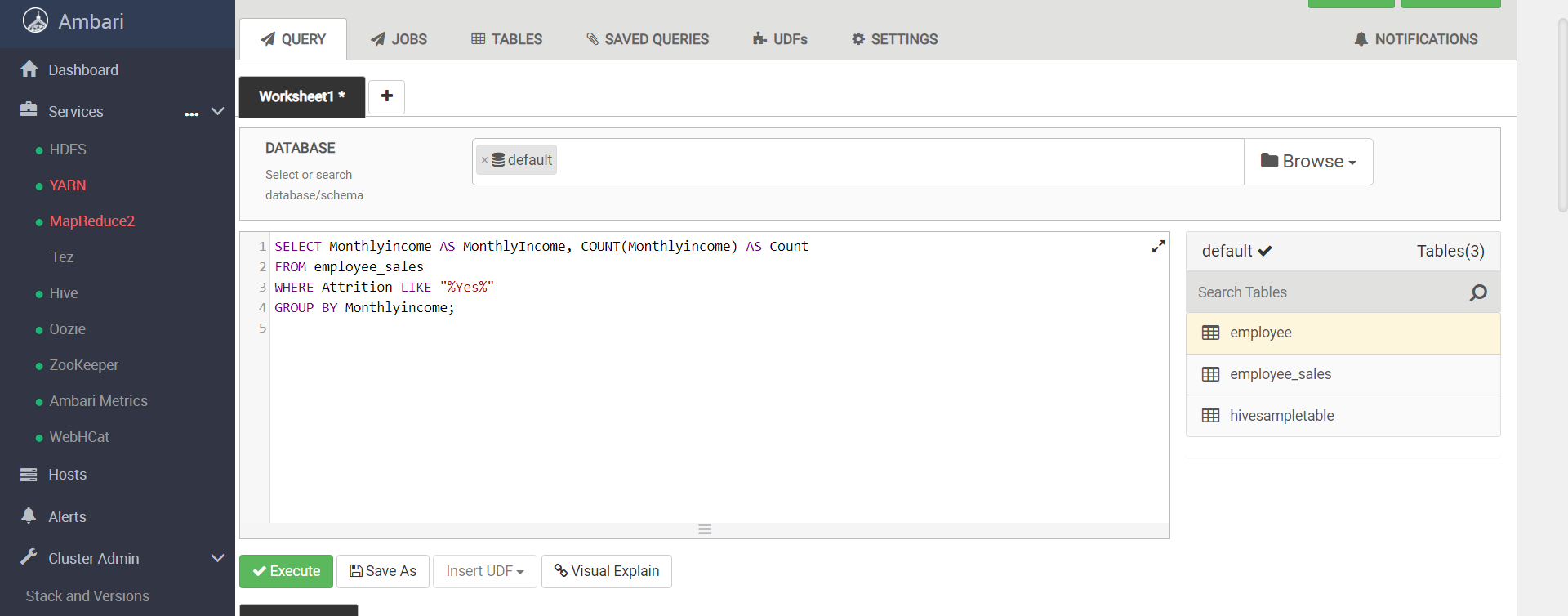
1. **Create 2 tables containing the monthly income and count of salespeople making that monthly income for: salespeople with attrition and salespeople without attrition. Label the columns as: “monthlyincome” and “count”**
2. **Attrition table**

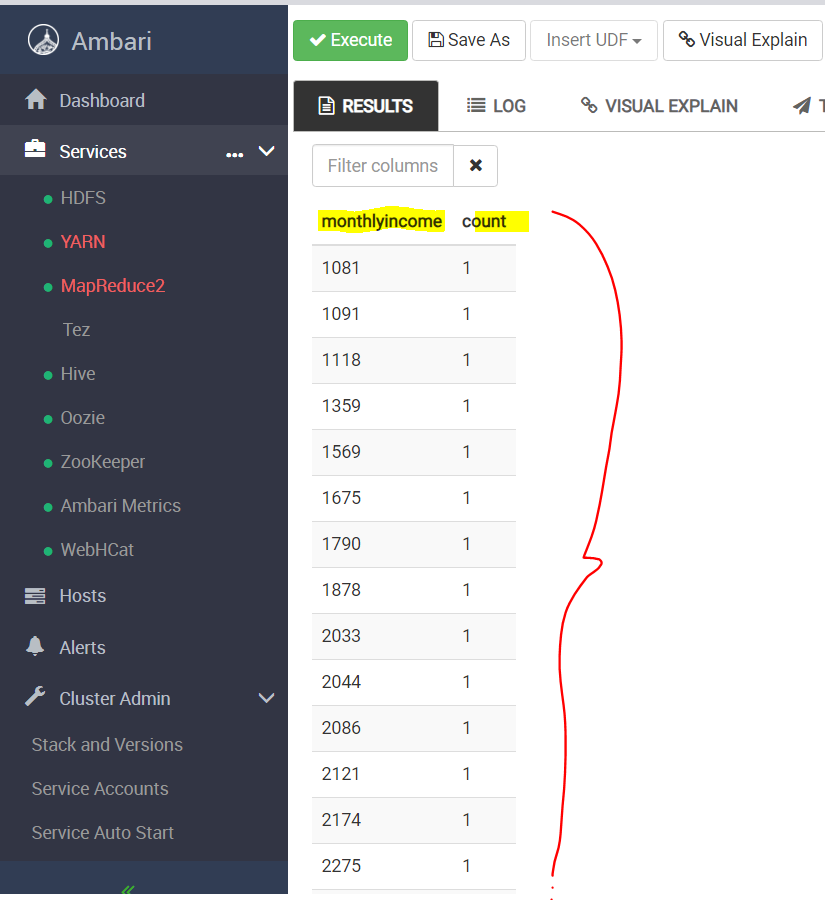
SELECT Monthlyincome AS MonthlyIncome, COUNT(Monthlyincome) AS Count

FROM employee\_sales

WHERE Attrition LIKE "%Yes%"

GROUP BY Monthlyincome;





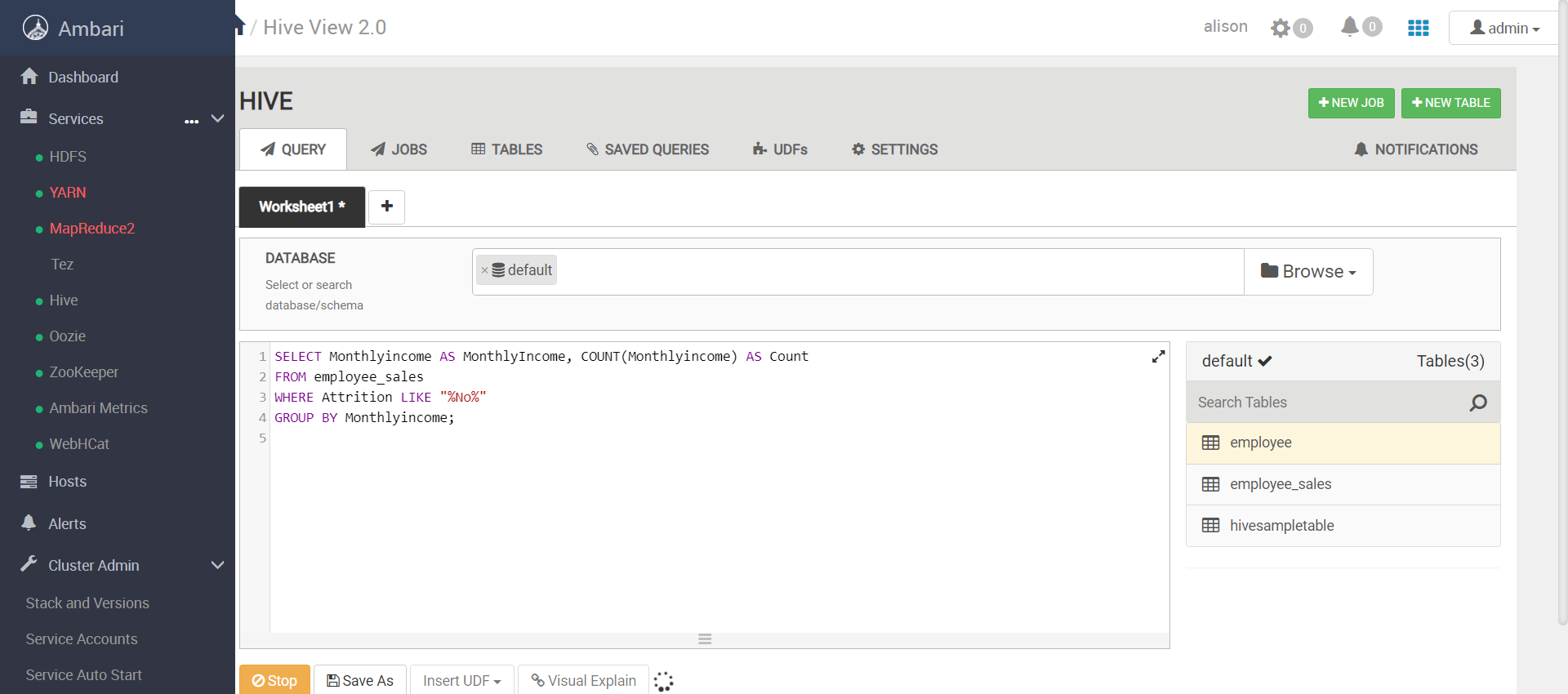
**b. Non\_Attrition table**

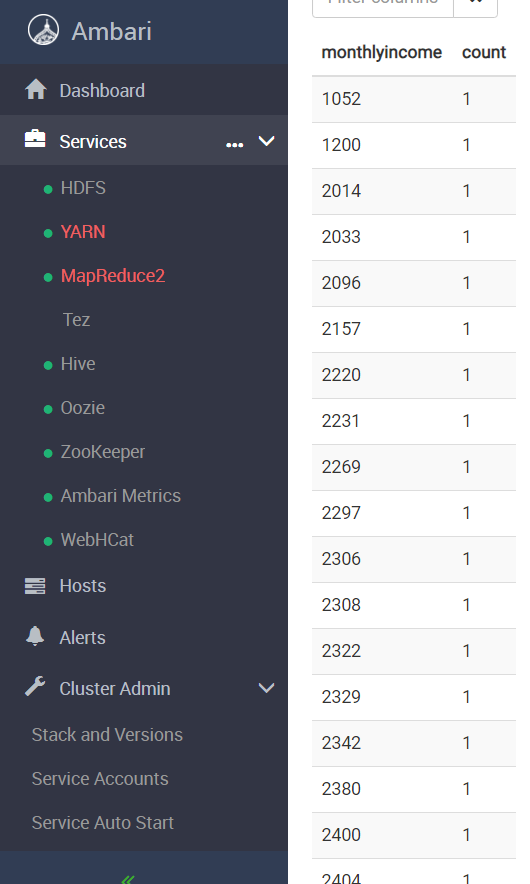
SELECT Monthlyincome AS MonthlyIncome, COUNT(Monthlyincome) AS Count

FROM employee\_sales

WHERE Attrition LIKE "%No%"

GROUP BY Monthlyincome;





***~~END~~***