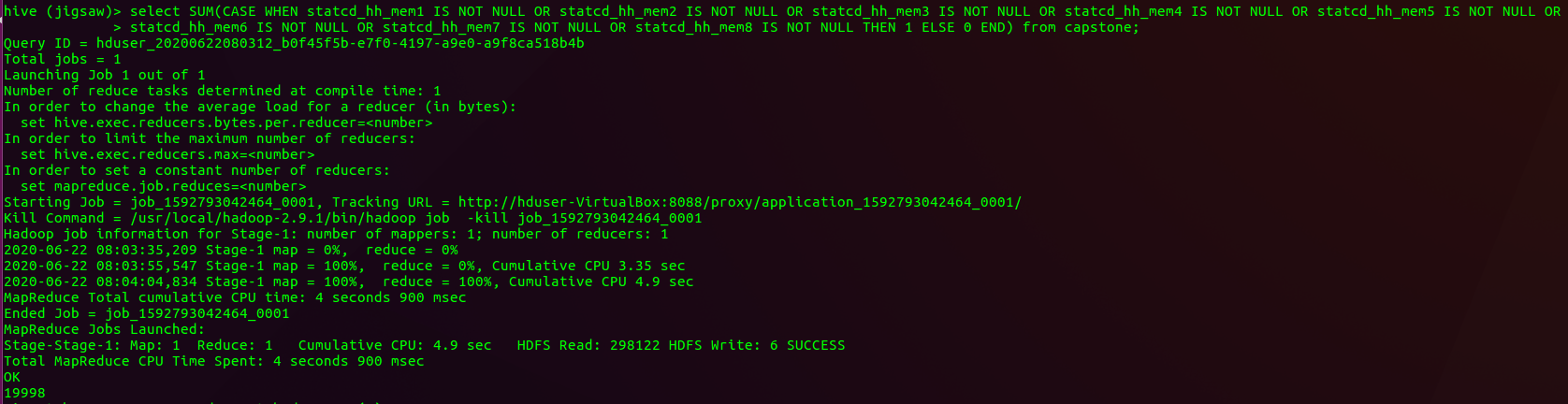
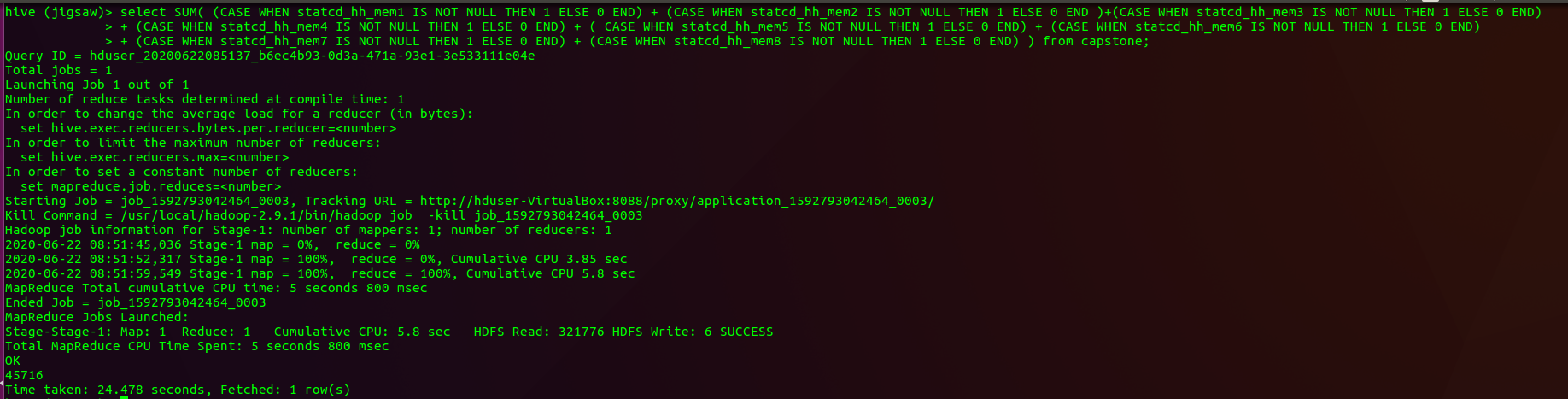
**A. Find count of leads with information about members of their household. If a lead has information about 3 members, and another has information about 2 members and another has none, then the answer to this question is 1.**

**QUERY:** select SUM(CASE WHEN statcd\_hh\_mem1 IS NOT NULL OR statcd\_hh\_mem2 IS NOT NULL OR statcd\_hh\_mem3 IS NOT NULL OR statcd\_hh\_mem4 IS NOT NULL OR statcd\_hh\_mem5 IS NOT NULL OR statcd\_hh\_mem6 IS NOT NULL OR statcd\_hh\_mem7 IS NOT NULL OR statcd\_hh\_mem8 IS NOT NULL THEN 1 ELSE 0 END) from capstone;



**B. Find count of total number of household members information is available. For example, if a lead has 3 household members, and another has about 2 members, and the other has none, then the total count of household members is 3+2+0 = 5**

**QUERY:**  select SUM( (CASE WHEN statcd\_hh\_mem1 IS NOT NULL THEN 1 ELSE 0 END) + (CASE WHEN statcd\_hh\_mem2 IS NOT NULL THEN 1 ELSE 0 END )+(CASE WHEN statcd\_hh\_mem3 IS NOT NULL THEN 1 ELSE 0 END) + (CASE WHEN statcd\_hh\_mem4 IS NOT NULL THEN 1 ELSE 0 END) + ( CASE WHEN statcd\_hh\_mem5 IS NOT NULL THEN 1 ELSE 0 END) + (CASE WHEN statcd\_hh\_mem6 IS NOT NULL THEN 1 ELSE 0 END) + (CASE WHEN statcd\_hh\_mem7 IS NOT NULL THEN 1 ELSE 0 END) + (CASE WHEN statcd\_hh\_mem8 IS NOT NULL THEN 1 ELSE 0 END) ) from capstone;

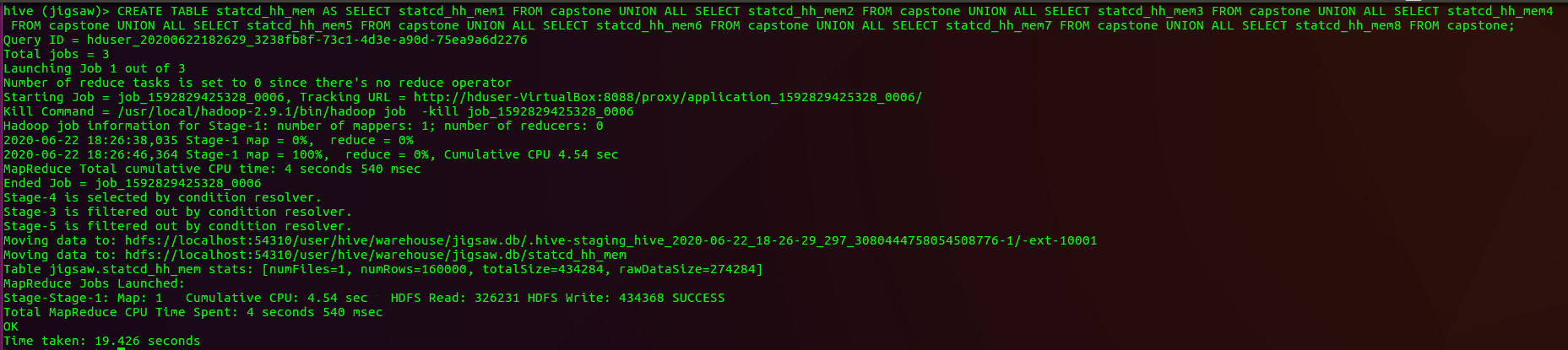


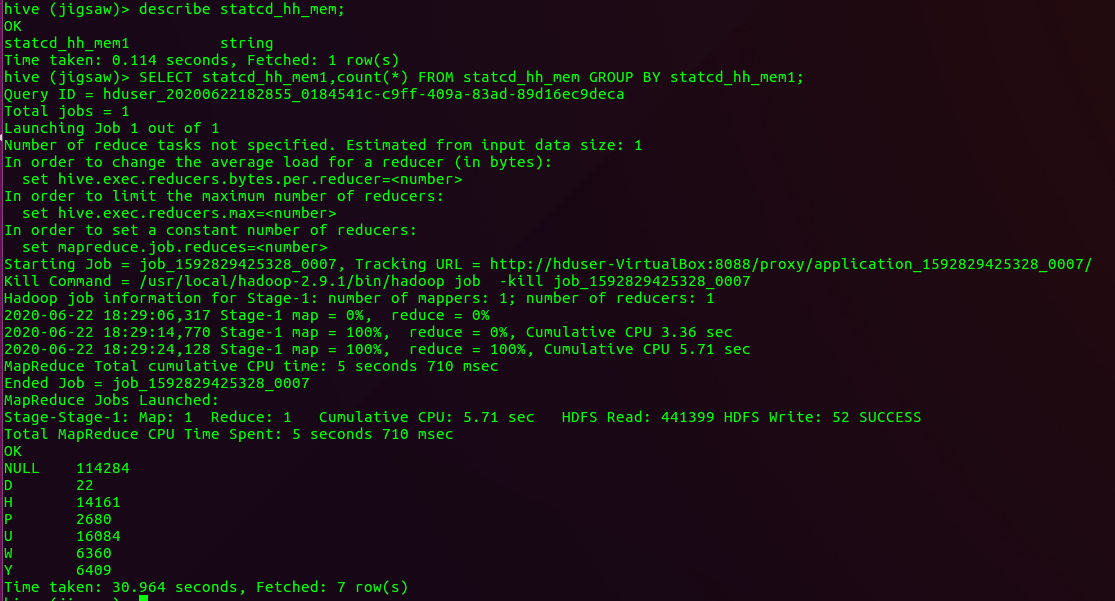
**C. Find count of household members by type (Head of Household, Spouse etc)**

**UNION ALL** : CREATE TABLE statcd\_hh\_mem AS SELECT statcd\_hh\_mem1 FROM capstone UNION ALL SELECT statcd\_hh\_mem2 FROM capstone UNION ALL SELECT statcd\_hh\_mem3 FROM capstone UNION ALL SELECT statcd\_hh\_mem4 FROM capstone UNION ALL SELECT statcd\_hh\_mem5 FROM capstone UNION ALL SELECT statcd\_hh\_mem6 FROM capstone UNION ALL SELECT statcd\_hh\_mem7 FROM capstone UNION ALL SELECT statcd\_hh\_mem8 FROM capstone;

**DESCRIBE**: DESCRIBE statcd\_hh\_mem;

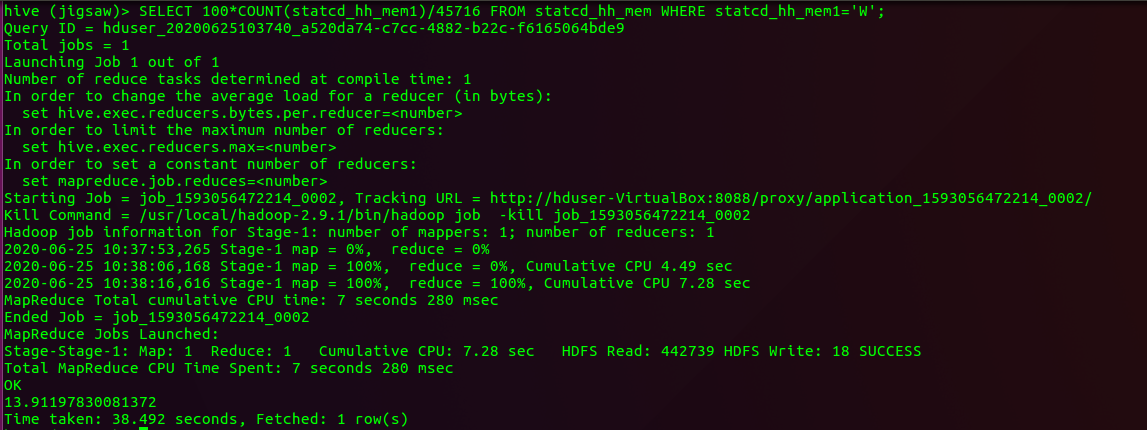
**GROUP BY**: SELECT statcd\_hh\_mem1,count(\*) total FROM statcd\_hh\_mem GROUP BY statcd\_hh\_mem1;





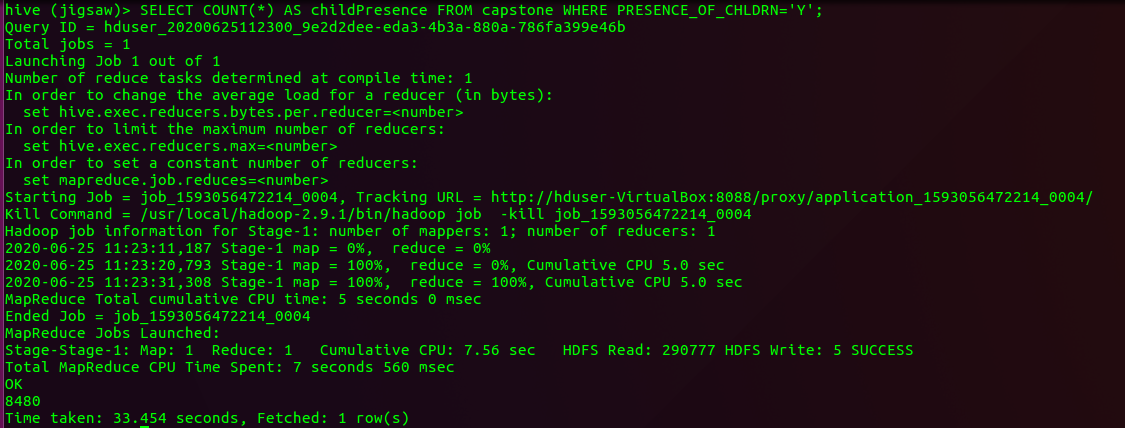
**D. %age of household members type. For example, if there are 5 Head of Household, 10 Spouse and 85 in the other categories, then the %age of Spouses is 10.**

**QUERY:** SELECT 100\*COUNT(statcd\_hh\_mem1)/45716 FROM statcd\_hh\_mem WHERE statcd\_hh\_mem1='W';



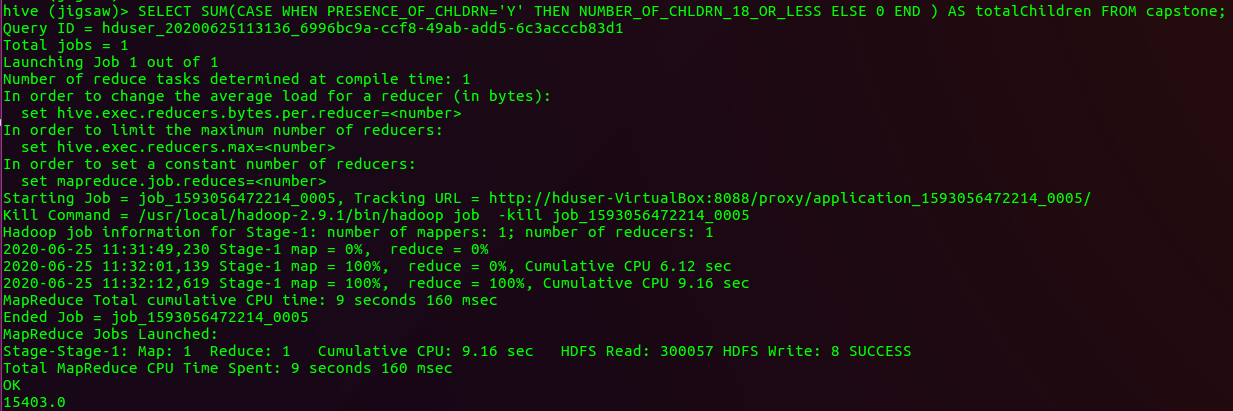
**E. How many known households have children?**

**QUERY:** SELECT NUMBER\_OF\_CHLDRN\_18\_OR\_LESS FROM capstone LIMIT 10;



**F. Overall, how many children are there?**

**QUERY:** SELECT SUM(CASE WHEN PRESENCE\_OF\_CHLDRN='Y' THEN NUMBER\_OF\_CHLDRN\_18\_OR\_LESS ELSE 0 END ) AS totalChildren FROM capstone;



**G. How many of the children are male and how many are female?**

**UNION:** CREATE TABLE childGenderr AS SELECT GNDR\_OF\_CHLDRN\_0\_3 FROM capstone UNION ALL SELECT GNDR\_OF\_CHLDRN\_4\_6 FROM capstone UNION ALL SELECT GNDR\_OF\_CHLDRN\_7\_9 FROM capstone UNION ALL SELECT GNDR\_OF\_CHLDRN\_10\_12 FROM capstone UNION ALL SELECT GNDR\_OF\_CHLDRN\_13\_18 FROM capstone gender;

**DESCRIBE:** DESCRIBE childGender;

**QUERY:** SELECT gndr\_of\_chldrn\_0\_3,COUNT(\*) FROM childGender GROUP BY gndr\_of\_chldrn\_0\_3;

