Hive

**Task 1: Total count of male/female based on education.**

**Solution:** select education,gender,count(gender) from census group by gender;

**Task 2: Total count of employed/unemployed based on education.**

**Solution:** select education, count(\*) as unemployed from census where work=0 group by education;

select education, count(\*) as employed from census where work>0 group by education;

**Task 3: Total count for people in age range of 18-25 based on education.**

**Solution:** select education, count(\*) as people from census where age between 18 and 25 group by education;

**Task 5: 2.Per Capita Income(PCI) analysis consolidated,gender wise and category wise**

**Category-wise:** select a.category,sum(c.income)/count(a.category) from census c join agegroup a on c.age=a.age group by a.category;

**Gender-wise:** select gender,sum(income)/count(gender) from census group by gender;

**PCI:** select sum(income)/count(income) as PCI from census;

**Task 6: Voter(s) count in x year(s)**

set year = 2016;

select count(\*) as voters from census where age+(${hiveconf:year}-YEAR(from\_unixtime(unix\_timestamp())))>=18;

**Task 7: Senior Citizen(s) count in x year(s)**

select count(\*) as senior\_citizen from census where age+(${hiveconf:year}-YEAR(from\_unixtime(unix\_timestamo())))>=60;

**Task 8: Total number of Male/Female**

select gender, count(\*) from census group by gender;

**Task 9: Citizens and immigrants count for employed lot**

select citizen, count(\*) from (select case citizen when ' Native- Born in the United States' then 'Native Born US' else 'Immigrants' End citizen from census) a where work>0 group by citizen;

**Task 10: Degree wise count for employability**

select education, count(\*) from census where work=0 group by education;

**Task 11: Non-US citizen(s) tax filer status**

select tax,citizen from census where citizen not in (' Native- Born in the United States');

**Task 12: Country of birth wise count for US citizenship by naturalisation**

select birth,count(citizen) from census where citizen=' Foreign born- U S citizen by naturalization' group by birth;