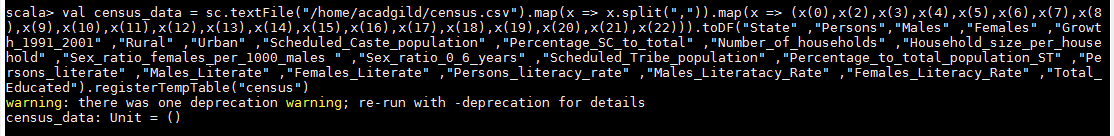
**Assignment 22.1:**

**Go through below blog and reiterate the same at your end.**

**https://docs.google.com/document/d/1csLBlMiEXs\_hXWV2Z8VpBlrj\_R6RoDQLlZUnA0uBT**

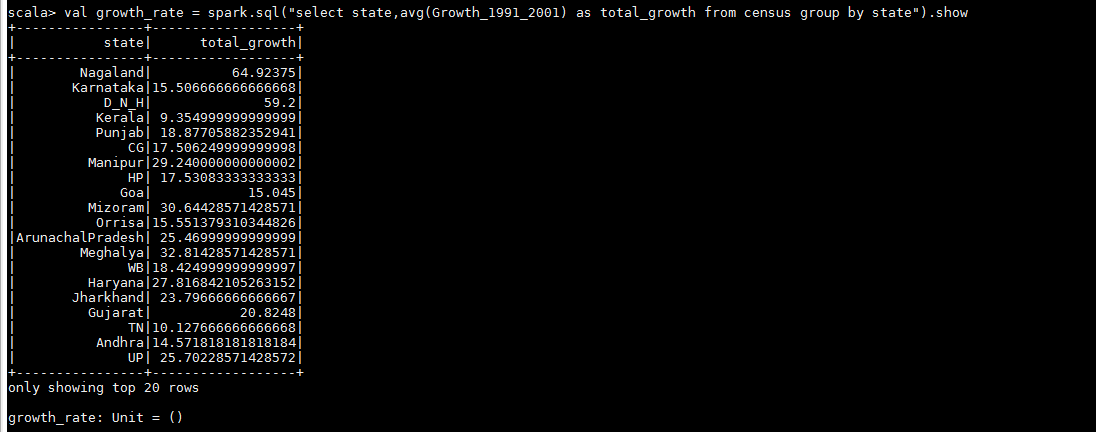
**Ck/edit**

****

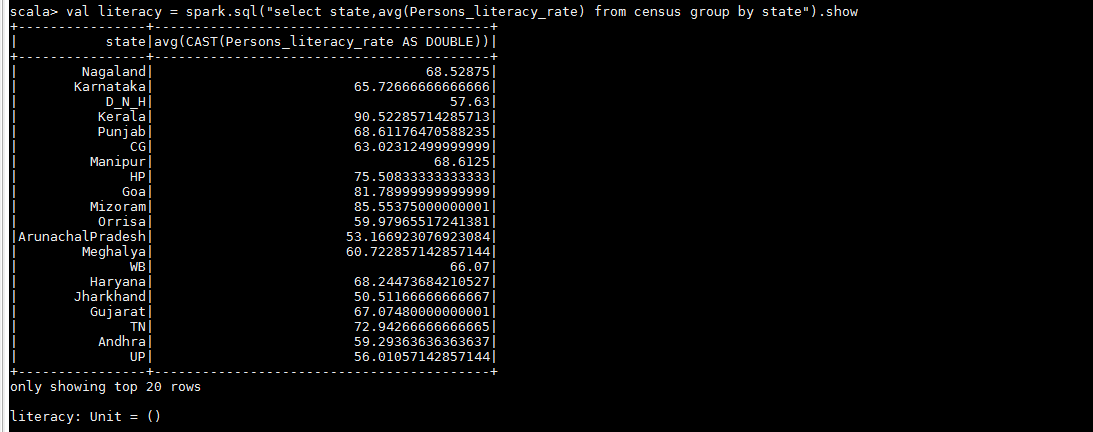
1. **val population = spark.sql("select state,sum(persons) as total\_population from census group by state order by total\_population desc").show**

****

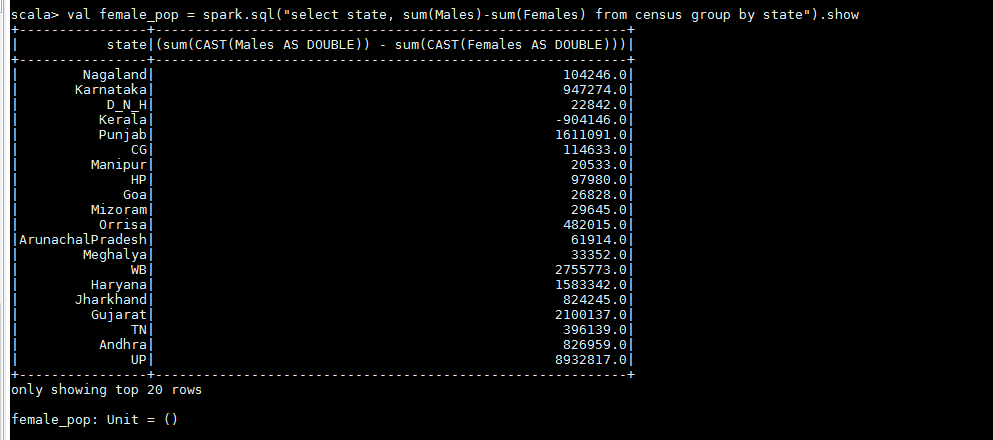
1. **val growth\_rate = spark.sql("select state,avg(Growth\_1991\_2001) as total\_growth from census group by state").show**

****

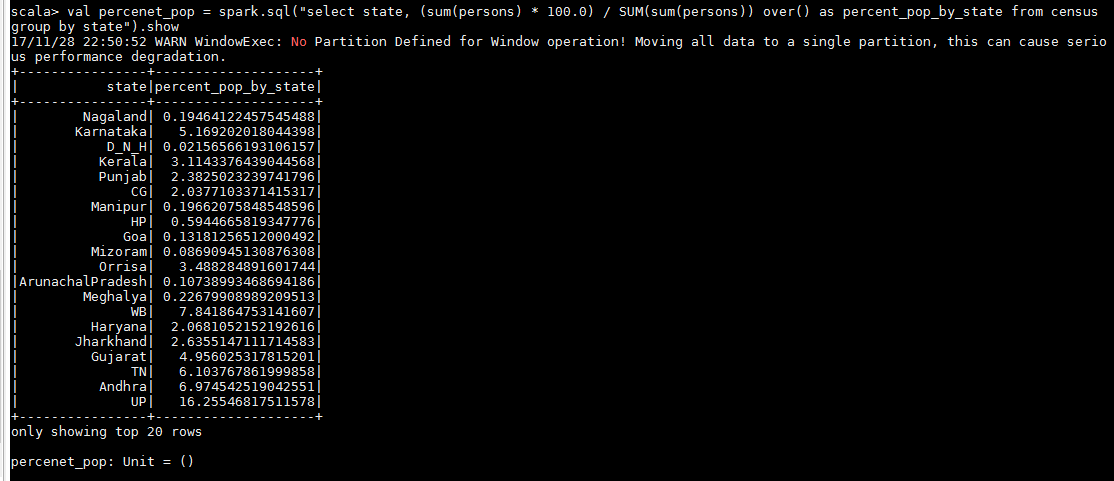
1. **val literacy = spark.sql("select state,avg(Persons\_literacy\_rate) from census group by state").show**

****

1. **val female\_pop = spark.sql("select state, sum(Males)-sum(Females) from census group by state").show**

****

1. **val percenet\_pop = spark.sql("select state, (sum(persons) \* 100.0) / SUM(sum(persons)) over() as percent\_pop\_by\_state from census group by state").show**

****