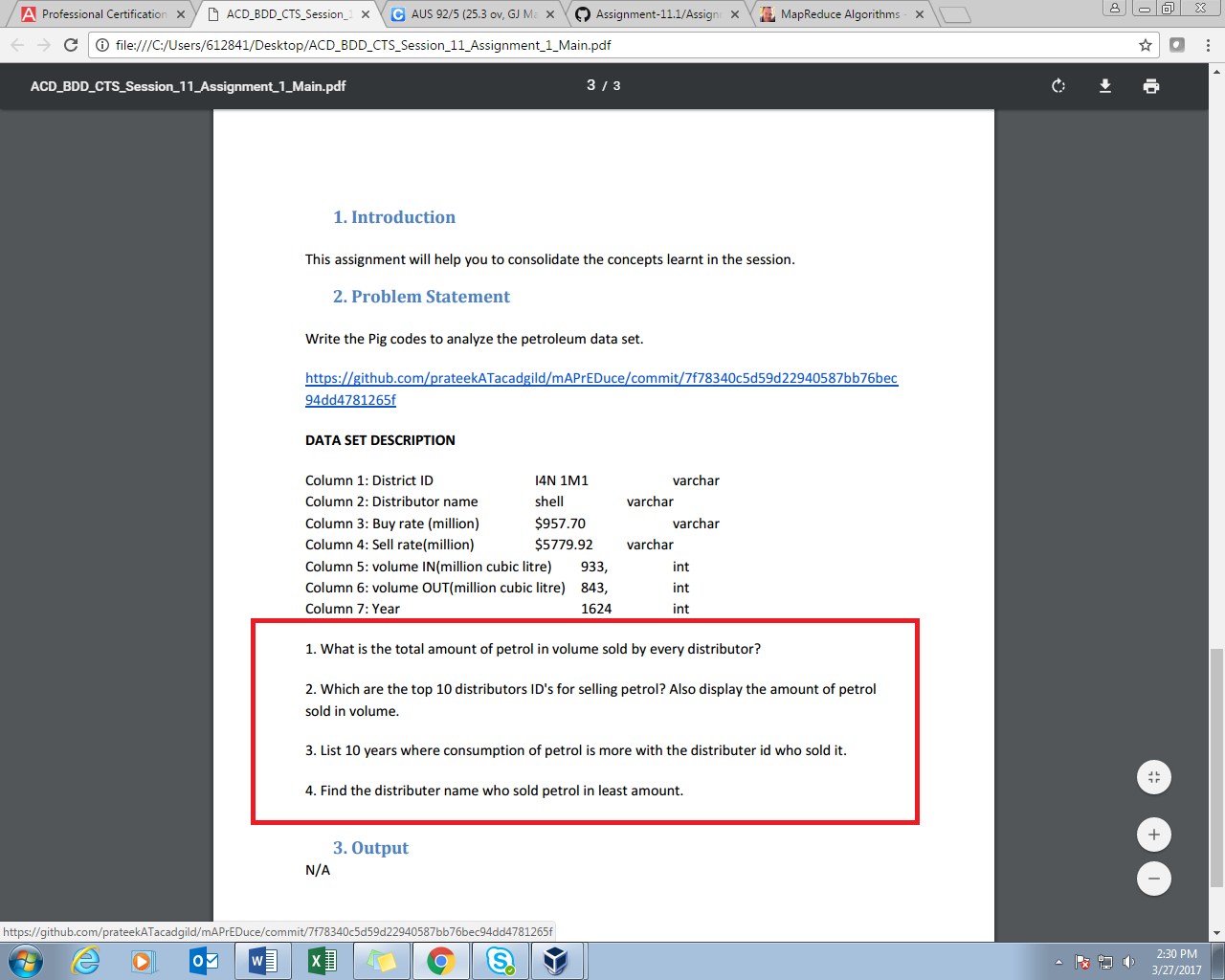
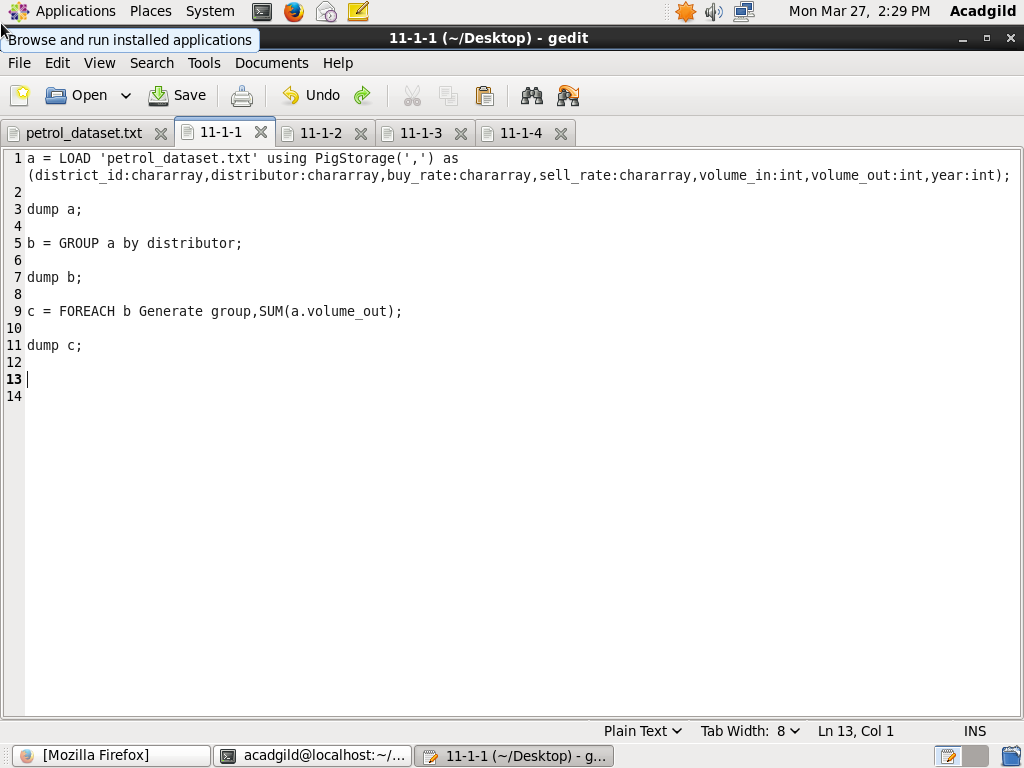
**PROBLEM STATEMENT:**

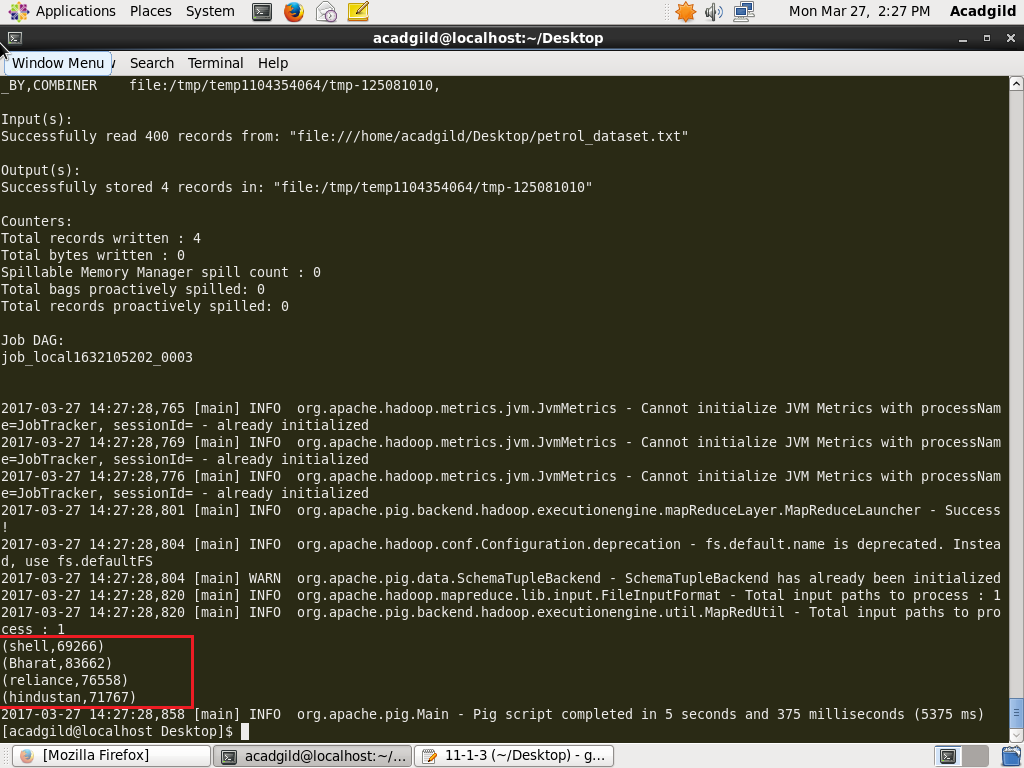
****

**Q-1**

**PROGRAM:**

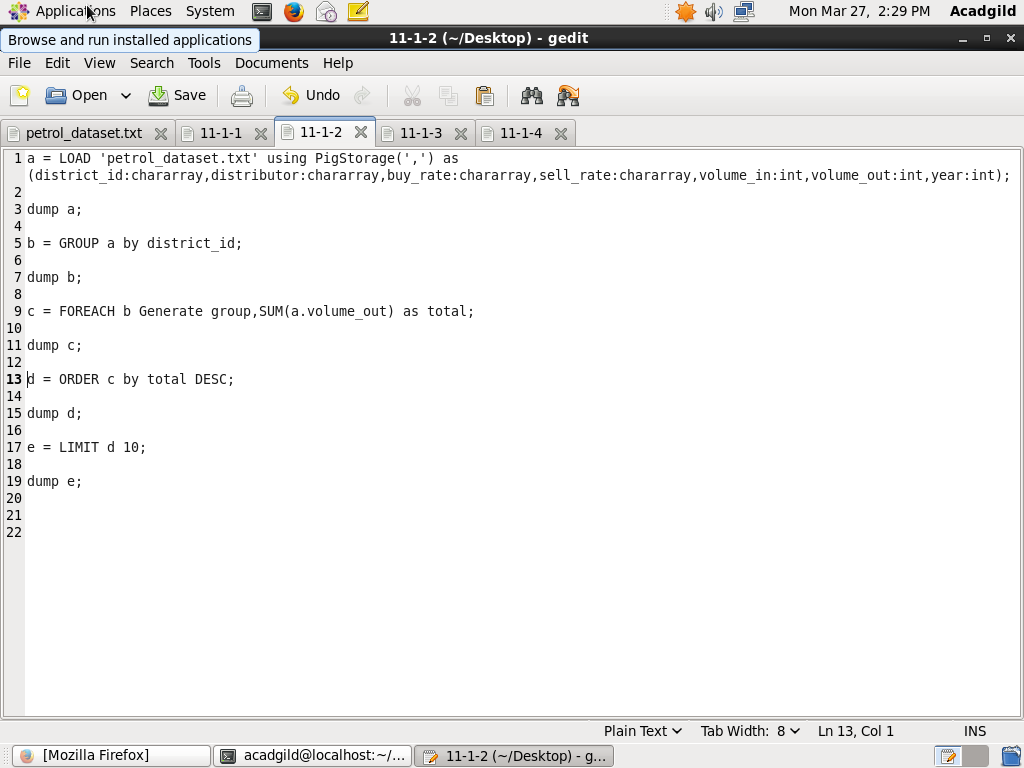
****

**OUTPUT:**

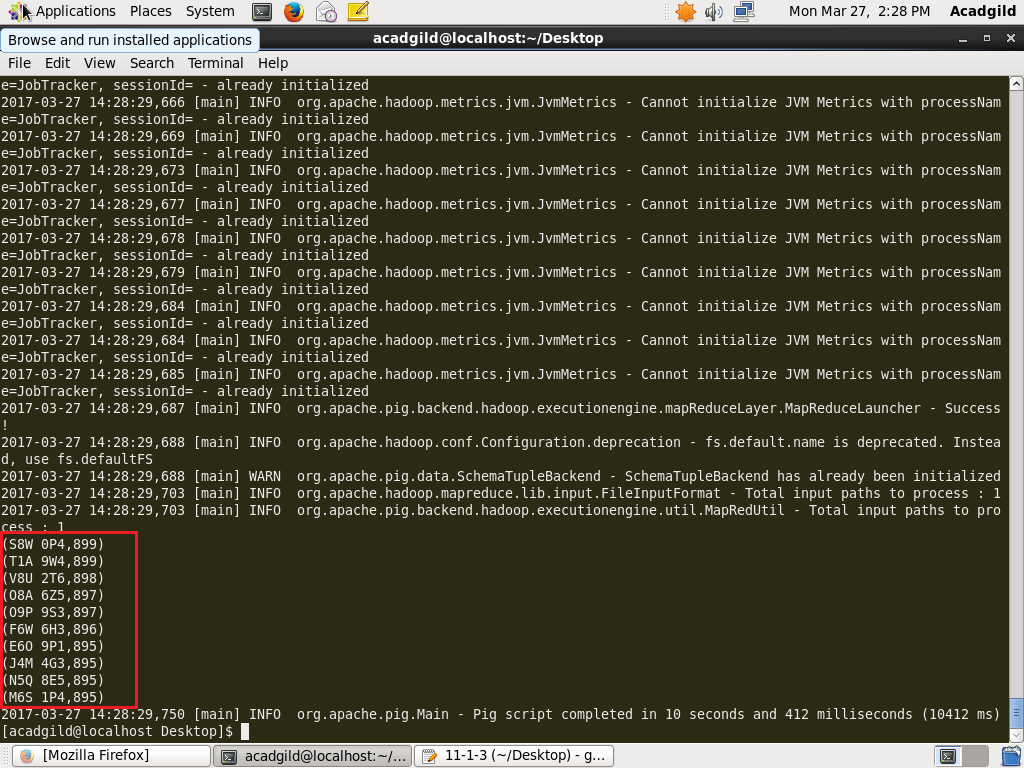
****

**Q2-**

**PROGRAM:**

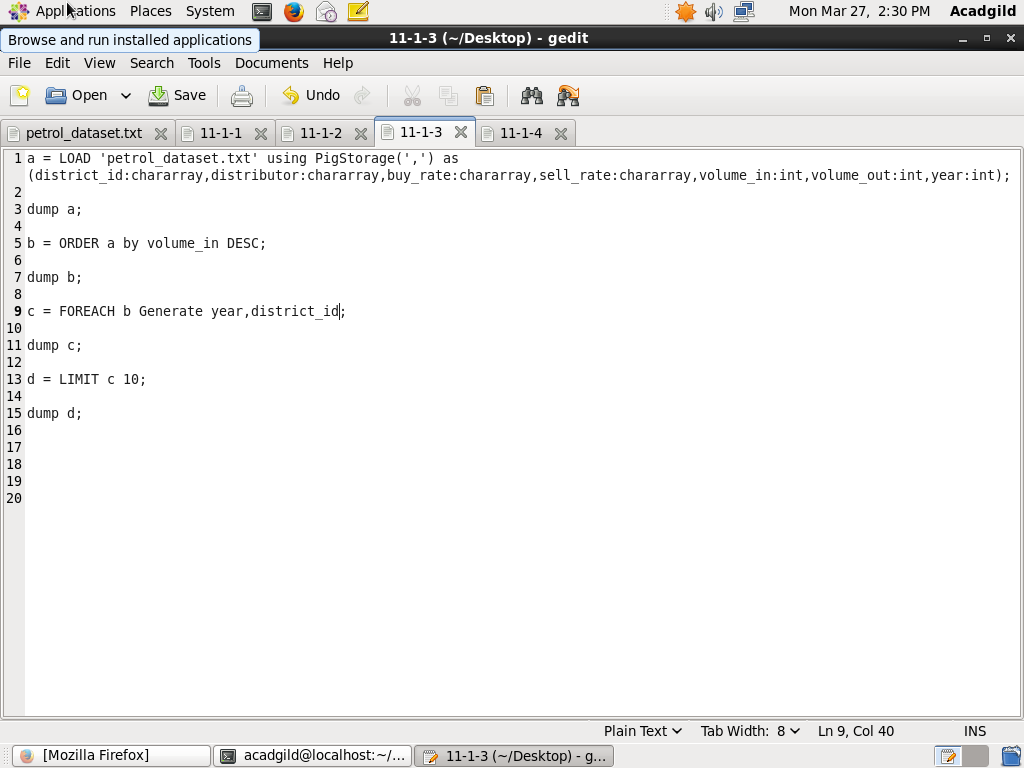
****

**OUTPUT:**

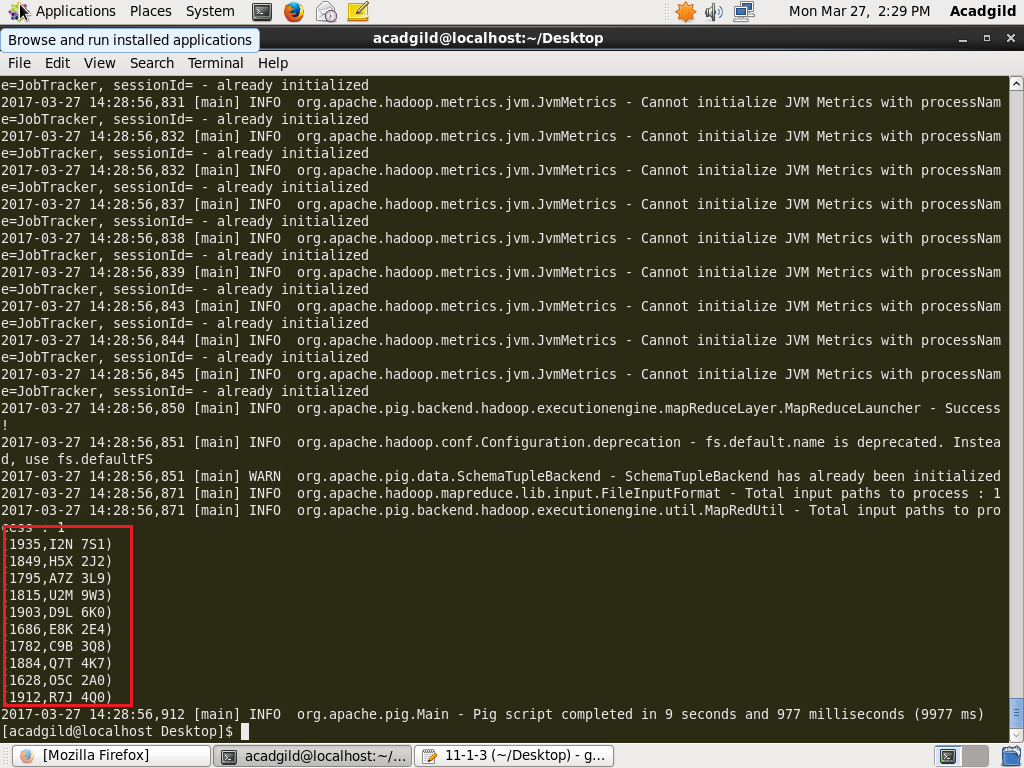
****

**Q3-**

**PROGRAM:**

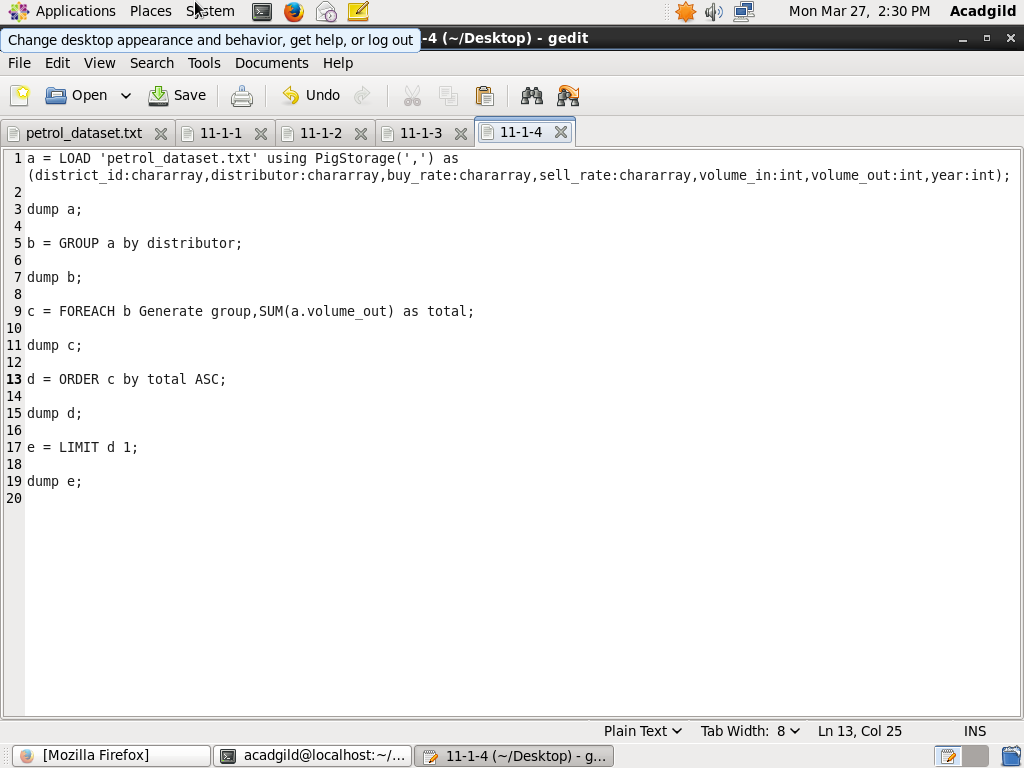
****

**OUTPUT:**

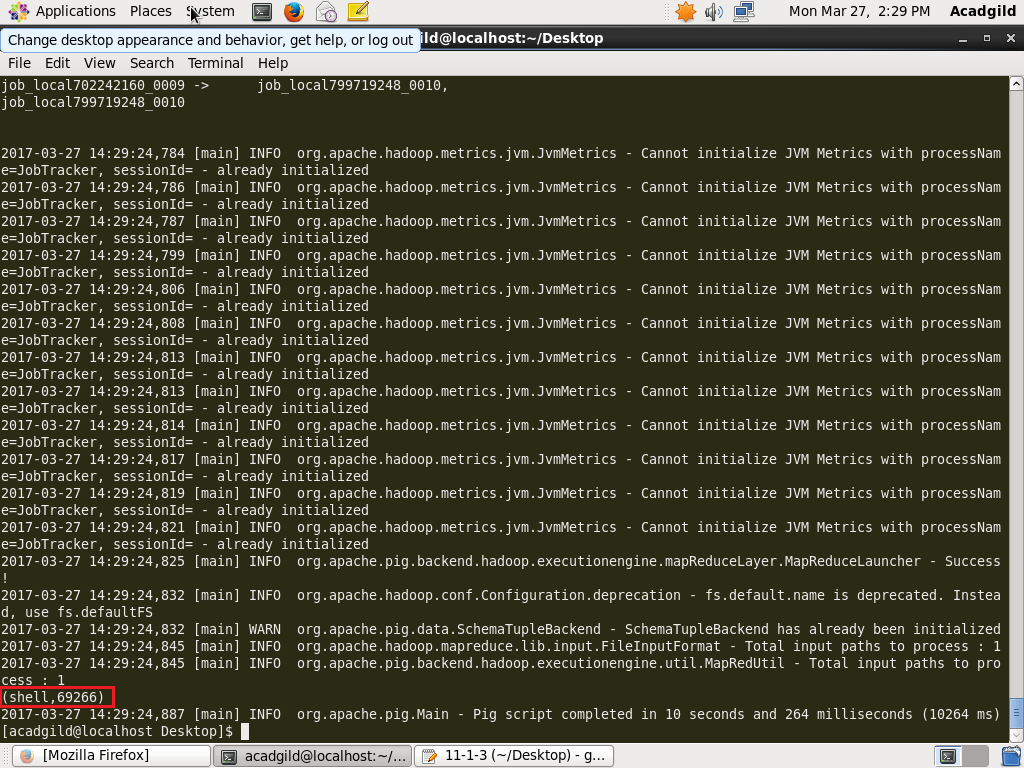
****

**Q4-**

**PROGRAM:**

****

**OUTPUT:**

****