Assignment 3: Relational Algebra

1. $\sigma_{name='Peter\ Smith'}$ (Client)
2. $\sigma_{frequency>5}$ (AirtimePackage)
3. $\Pi_{videoCode}(\sigma_{siteCode='S345'}$ (Broadcasts))
4. $\Pi_{serialNo}$ (Locates $\bowtie$ $\sigma_{type='restaurant'}$ (Site))
5. $\Pi_{empId,name}$ ($\sigma_{modelNo='M456781'}$ (Specializes $\bowtie$ TechnicalSupport))
6. $\Pi_{modelNo}$ ($\sigma_{name='Peter'}$ (Specializes $\bowtie$ TechnicalSupport $\bowtie$ Model)

7.$\Pi_{videoCode,videoLength}$ ((($\sigma_{siteCode=111}$ (Broadcasts)) – $\sigma_{siteCode=112}$ (Broadcast)) $\bowtie$ Video)

8. Π_{name} (TechnicalSupport) $\cup$ Π_{name} (Administrator) $\cup$ Π_{name}(Salesman)

9. $\Pi_{empId,name}$ ($\sigma_{modelNo='M01'}$ (Specializes $\bowtie$ TechnicalSupport))

10. $\Pi_{empId,name}$ ((Purchases $\bowtie$ Salesman) – Purchases)