

CS348 - Database Management, A01

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September 29, 2014

1. $\pi_{p_name}(\sigma_{p_brand=Brand\#42}(\sigma_{p_size \geq 43}(\sigma_{p_size \leq 47}(Part))))$
2. $\pi_{c_custkey, c_name, c_phone}(\sigma_{c_acctbal < 0}(\sigma_{n_name=Canada}(Cust \bowtie_{c_nationkey=n_nationkey} Nati)))$
3. $p(c_name \rightarrow name, c_phone \rightarrow phone, \pi_{c_name, c_phone}(\sigma_{c_acctbal > 9975}(Cust))) \cup$
 $p(s_name \rightarrow name, s_phone \rightarrow phone, \pi_{s_name, s_phone}(\sigma_{c_acctbal > 9500}(Supp)))$
4. $\pi_{n_name}(Nati \bowtie_{n_nationkey=s_nationkey} (Supp \bowtie_{s_nationkey=SuppB.s_nationkey} p(Supp \rightarrow SuppB, Supp)))$