

Exercise 3 (Relational Algebra)

1.

$$\Pi_{city,streetaddr}(\sigma_{province='PQ'}(Branch))$$

2.

$$\Pi_{custid}(\sigma_{balance < 500}(\sigma_{atype='savings'}(Account)))$$

3.

$$\Pi_{acctid}(Account \bowtie_{Customer.name='Madea Fakename'}$$

$$\wedge Account.custid = Customer.custid \wedge Account.atype = 'savings' Customer) \Pi_{custid}(Customer \bowtie_{Customer.custid = Account.custid} Account)$$