**Relational Model**

Establishment (establishment\_id, establishment\_type, establishment\_location, establishment\_phone, establishment\_fax, establishment\_open\_date, establishment\_head\_position\_id)

Position (position\_id, position\_rank, position\_name, position\_monthly\_salary, position\_establishment\_id)

Employee (employee\_position\_id, employee\_id, employee\_name, employee\_address, employee\_start\_date, employee\_email, employee\_phone)

Service (service\_id, service\_name, service\_type, service\_level, service\_monthly\_fee, service\_credit\_limit, service\_transaction\_limit, service\_interest, service\_description, service\_general\_manager\_position\_id)

Client (client\_card\_number, client\_password, client\_name, client\_dob, client\_joining\_date, client\_address, client\_email, client\_phone)

Account (account\_number, account\_balance, account\_establishment\_id, account\_service\_id, account\_client\_id)

Transaction (transaction\_account\_number, transaction\_id, transaction\_description, transaction\_amount, transaction\_destination\_id, transaction\_date)

Event (event\_employee\_position\_id, event\_date, event\_activity)

Payroll (payroll\_employee\_position\_id, payroll\_period, payroll\_income, payroll\_deduction)

**Legend:**

Attribute part of primary key

Foreign attribute part of primary key

Foreign attribute

**Constraints:**

* Only one president for all Establishments
* Only one general manager per Service
* Only one Establishment per Position
* Attribute position\_rank is limited to: clerk, manager, general manager, and president
* Attribute service\_type is limited to: banking, investment, insurance, credit
* Attribute service\_level is limited to: personal, business, corporate
* A head/manager may be vacant temporarily within an Establishment or Service(NULL ALLOWED)
* A position may not be assigned to an Establishment temporarily (NULL ALLOWED)
* An Account requires that there be one Establishment, one Service, and one Client (NULL NOT ALLOWED)
* Attribute payroll\_income includes more than just employee\_monthly\_salary (NOT FOREIGN)
* Attribute event\_activity is limited to: work, leave, sick