Database Design

1. Employees(Bank Employee)
2. Branches
3. Customers(Account Holder)
4. Accounts
5. Banking\_Transactions
6. CC\_Transactions
7. Table name : employees

Table Structure : PRIMARY KEY (`Employee\_id`)

`Employee\_id` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`First\_Name` varchar(45) NOT NULL,

`Last\_Name` varchar(45) NOT NULL,

`Supervisor\_id` int(10) unsigned DEFAULT NULL,

`Level\_of\_Access` varchar(15) NOT NULL,

`Date\_of\_Birth` date NOT NULL,

`Street\_Address` varchar(50) NOT NULL,

`City` varchar(25) NOT NULL,

`State` char(2) NOT NULL,

`Zipcode` int(11) NOT NULL,

`Sex` char(1) NOT NULL,

1. Table name : branches

Table Structure : PRIMARY KEY (`Branch\_id`)

`Branch\_id` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`Branch\_Name` varchar(45) NOT NULL,

`Street\_Address` varchar(50) NOT NULL,

`City` varchar(25) NOT NULL,

`State` char(2) NOT NULL,

`Zipcode` int(11) NOT NULL,

`Phone\_Number` varchar(12) NOT NULL,

1. Table name : customer\_branch

Table Structure :

`Branch\_id` tinyint NOT NULL,

`branch\_name` tinyint NOT NULL,

`state` tinyint NOT NULL,

`NumberOfCustomers` tinyint NOT NULL

1. Table name : customers

Table Structure : PRIMARY KEY (`Customer\_id`)

`Customer\_id` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`First\_Name` varchar(45) NOT NULL,

`Last\_Name` varchar(45) NOT NULL,

`Date\_of\_Birth` date NOT NULL,

`Street\_Address` varchar(50) NOT NULL,

`City` varchar(25) NOT NULL,

`State` char(2) NOT NULL,

`mobile` int(11) NOT NULL,

`Zipcode` int(11) NOT NULL,

`Email` varchar(45) NOT NULL,

`Sex` char(1) NOT NULL,

1. Table name : accounts

Table Structure : PRIMARY KEY (`Account\_id`),

`Account\_id` int(10) unsigned NOT NULL AUTO\_INCREMENT,

` Account\_Balance` decimal(10,2) NOT NULL,

` Branch\_id` int(10) NOT NULL,

‘ Date\_Opened` date NOT NULL,

` Account\_Type` varchar(20) NOT NULL,

1. Table name : banking\_transactions

Table Structure : PRIMARY KEY (`Transaction\_id`),

`Transaction\_id` int(10) unsigned NOT NULL AUTO\_INCREMENT,

` Transaction\_Type` varchar(45) NOT NULL,

`Description` varchar(45) DEFAULT NULL,

`Amount` decimal(10,2) NOT NULL,

`Date` date NOT NULL,

`Customer\_id` int(10) unsigned NOT NULL,

KEY `fk\_Netbanking\_transactions\_Customer1\_idx` (`Customer\_id`),

1. Table name : cc\_transactions

Table Structure : PRIMARY KEY (`Transaction\_id`),

`Transaction\_id` int(10) unsigned NOT NULL AUTO\_INCREMENT,

`CC\_Number` varchar(20) NOT NULL,

`Transaction\_Date` date NOT NULL,

`Amount` decimal(10,2) NOT NULL,

`Merchant\_Details` varchar(45) NOT NULL,

8. Table name : cust\_transactions

Table Structure :

`Transaction\_Count\_For\_Month` tinyint NOT NULL,

`Customer\_id` tinyint NOT NULL,

`Customer\_Name` tinyint NOT NULL,

`Transaction\_Month` tinyint NOT NULL