1. **CALCULATION**

**Formula**

**Interest:** Release \* 20%

**Daily Payment/Collection:** (Release \* Interest) / Term (60 days)

**Penalty:** Release \* 1%

**Example**

If (Release = 5,000.00)

**Interest:** 5,000.00 \* 20% = 1,000.00

**Daily Payment/Collection:** (5,000.00 + 1,000) / 60 = 100.00

**Penalty:** 5,000.00 \* 1% = 50.00

1. **DATABASE DESIGN**

**Table Names:**

* administrator
* release
* collection
* customer\_account
* customer\_business\_info
* loan\_transaction
* penalty

**Table Columns:**

administrator

* + id
  + username
  + password

release

* + id
  + customer\_id
  + amount
  + date

collection

* + id
  + customer\_id
  + loan\_transaction\_id
  + amount
  + date

customer\_account

* + id
  + name
  + address
  + contact\_number

customer\_business\_info

* + id
  + customer\_id
  + name
  + business\_nature
  + gross\_business\_capital
  + average\_daily\_gross\_sales

loan\_transaction

* + id
  + customer\_id
  + release\_id
  + daily\_collection
  + interest
  + daily\_penalty
  + status
  + remarks

penalty

* + id
  + customer\_id
  + loan\_transaction\_id
  + amount
  + date

**FINAL DESIGN:** <https://drive.google.com/file/d/1G29nFDaJTH5UAvDVxFZAJknlZc97MrVP/view?usp=sharing>