**Relational Model**

USER

| name | account\_number | exp\_date | credit\_limit | amount\_due | available\_balance |
| --- | --- | --- | --- | --- | --- |

CIVILIAN

| name | account\_number | civilian\_id |
| --- | --- | --- |

COMPANY

| name | account\_number | company\_id | employee\_name | employee\_identity |
| --- | --- | --- | --- | --- |

EMPLOYEE

| name | account\_number | company | employee\_id |
| --- | --- | --- | --- |

MERCHANT

| name | account\_number | merchant\_id | supply | amount\_due | total\_profit |
| --- | --- | --- | --- | --- | --- |

TRANSACTION

| transaction\_id | customer\_name | customer\_property | merchant\_name | product\_name | transaction\_date | transaction\_amount |
| --- | --- | --- | --- | --- | --- | --- |

| transaction\_type | returned |
| --- | --- |

delete

| name | property |
| --- | --- |

purchase

| name | property | merchant\_id |
| --- | --- | --- |

return

| name | property | merchant\_id |
| --- | --- | --- |

ask

| name | property | merchant\_id |
| --- | --- | --- |

show

| name | property | merchant\_id | transaction\_id | from | to |
| --- | --- | --- | --- | --- | --- |

STATUS

| name | property | merchant\_id |
| --- | --- | --- |

MERCHANT OF THE MONTH

| name | property | merchant\_id | date |
| --- | --- | --- | --- |

**3NF**

USER

| name | account\_number |
| --- | --- |

CIVILIAN

| name | account\_number | civilian\_id | exp\_date | credit\_limit | amount\_due | available\_balance |
| --- | --- | --- | --- | --- | --- | --- |

COMPANY

| name | account\_number | company\_id | employee\_name | employee\_identity | exp\_date | credit\_limit | amount\_due | available\_balance |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |

EMPLOYEE

| name | account\_number | company | employee\_id | exp\_date | credit\_limit | amount\_due | available\_balance |
| --- | --- | --- | --- | --- | --- | --- | --- |

MERCHANT

| name | account\_number | merchant\_id | supply | amount\_due | total\_profit |
| --- | --- | --- | --- | --- | --- |

TRANSACTION

| transaction\_id | customer\_name | customer\_property | merchant\_name | transaction\_date | transaction\_amount | transaction\_type |
| --- | --- | --- | --- | --- | --- | --- |

CUSTOMER

| customer\_name | customer\_property | product\_name | returned |
| --- | --- | --- | --- |

MERCHANT

| merchant\_name | product\_name | returned |
| --- | --- | --- |

delete

| name | property |
| --- | --- |

purchase

| name | property | merchant\_id |
| --- | --- | --- |

return

| name | property | merchant\_id |
| --- | --- | --- |

ask

| name | property | merchant\_id |
| --- | --- | --- |

show

| name | property | merchant\_id | transaction\_id | from | to |
| --- | --- | --- | --- | --- | --- |

STATUS

| name | property | merchant\_id |
| --- | --- | --- |

MERCHANT OF THE MONTH

| name | property | merchant\_id | date |
| --- | --- | --- | --- |