แหล่งเก็บข้อมูลของระบบ TA (Toll Admin) ดังแสดงตาราง

| Table Name | Description |
| --- | --- |
| Config | The System Configuration |
| ViewHistory | The View Update history information |
| TSB | The TSB information |
| PlazaGroup | The Plaza Group (route direction) information |
| Plaza | The Plaza information |
| Lane | The Plaza’s Lane information |
| Role | The User’ role information |
| User | The User (or staff) information |
| Shift | The Shift information |
| MCurrency | The Currency type information (master) |
| MCoupon | The Coupon type information (master) |
| TSBShift | The TSB Shift (Chief) transaction |
| UserShift | The User Shift (Collector) transaction |
| TSBCredit  Transaction | TSB Credit Transaction (Borrow/Return/Internal exchange) |
| UserCredit  Balance | User Credit Balance |
| UserCredit  Transaction | User Credit Transaction (Borrow/Return) |
| TSBExchange  Group | TSB Exchange (Request/Return) Group |
| TSBExchange  Transaction | TSB Exchange Transaction |
| TSBCoupon  Transaction | TSB Coupon Transaction |
| UserCoupon  Transaction | User Coupon Transaction |

ตาราง 1 แหล่งเก็บข้อมูลของระบบ TA

1. Config

| Field Name | Data Type | Description |
| --- | --- | --- |
| Key | PK, varchar(30) | Config key |
| Value | varchar(100) | Config value |

Initial Key

Network = 4

tsb = 97

terminal = 49701

1. ViewHistory

| Field Name | Data Type | Description |
| --- | --- | --- |
| ViewName | PK, varchar(100) | View Name |
| VersionId | integer | update version number |

1. TSB

| Field Name | Data Type | Description |
| --- | --- | --- |
| TSBId | PK, varchar(10) | TSB Id. |
| NetworkId | varchar(10) | Network Id. |
| TSBNameEN | varchar(100) | TSB Name (English) |
| TSBNameTH | varchar(100) | TSB Name (Thai) |
| MaxCredit | float | Max credit balance |
| Active | integer | Value = 1 for active  Value = 0 for inactive |
| Status | integer | Reserved |
| LastUpdate | datetime | Reserved |

1. PlazaGroup

| Field Name | Data Type | Description |
| --- | --- | --- |
| PlazaGroupId | PK, varchar(10) | Plaza Group Id. |
| PlazaGroup  NameEN | varchar(100) | Plaza Group Name (English) |
| PlazaGroup  NameTH | varchar(100) | Plaza Group Name (Thai) |
| Direction | varchar(10) | Allow Vaue  IN, OUT, ? |
| TSBId | FK, varchar(10) | TSB Id |
| Status | integer | Reserved |
| LastUpdate | datetime | Reserved |

1. Plaza

| Field Name | Data Type | Description |
| --- | --- | --- |
| PlazaId | PK, varchar(10) | Plaza Id. |
| PlazaNameEN | varchar(100) | Plaza Name (English) |
| PlazaNameTH | varchar(100) | Plaza Name (Thai) |
| TSBId | FK, varchar(10) | TSB Id. |
| PlazaGroupId | FK, varchar(10) | Plaza Group Id. |
| Status | integer | Reserved |
| LastUpdate | datetime | Reserved |

1. Lane

| Field Name | Data Type | Description |
| --- | --- | --- |
| PkId | PK, integer | Primary Key (auto). |
| LaneNo | integer | Lane Number. |
| LaneId | varchar(10) | Lane Id. |
| LaneType | varchar(10) | Lane Type. |
| LaneAbbr | varchar(10) | Lane Abbr. |
| TSBId | FK, varchar(10) | TSB Id. |
| PlazaGroupId | FK, varchar(10) | Plaza Group Id. |
| PlazaId | FK, varchar(10) | Plaza Id. |
| Status | integer | Reserved |
| LastUpdate | datetime | Reserved |

1. Role

| Field Name | Data Type | Description |
| --- | --- | --- |
| RoleId | PK, varchar(20) | Role Id. Value (TC, CTC) |
| GroupId | integer | Group Id. |
| RoleNameEN | varchar(50) | Role Name (English). |
| RoleNameTH | varchar(50) | Role Name (Thai). |
| Status | integer | Reserved |
| LastUpdate | datetime | Reserved |

1. User

| Field Name | Data Type | Description |
| --- | --- | --- |
| UserId | varchar(10) | User Id. |
| PrefixEN | varchar(20) | Prefix (English) |
| FirstNameEN | varchar(50) | First Name (English) |
| MiddleNameEN | varchar(20) | Middle Name (English) |
| LastNameEN | varchar(50) | Last Name (English) |
| PrefixTH | varchar(20) | Prefix (Thai) |
| FirstNameTH | varchar(50) | First Name (Thai) |
| MiddleNameTH | varchar(20) | Middle Name (Thai) |
| LastNameTH | varchar(50) | Last Name (Thai) |
| Password | varchar(50) | Password (in MD5) |
| CardId | varchar(20) | Card Serial Number |
| RoleId | FK, varchar(20) | Role Id. |
| PasswordDate | datetime | Password create date. |
| ExpireDays | integer | expire days |
| AccountStatus | integer | 0 = Valid  1 = Invalid |
| IsDummy | integer | 0 = Production data  1 = Dummy data |
| Status | integer | Reserved |
| LastUpdate | datetime | Reserved |

1. Shift

| Field Name | Data Type | Description |
| --- | --- | --- |
| ShiftId | PK, integer | The Shift Id (Value 1-3) |
| ShiftNameTH | varchar(50) | The Shift Name (English) |
| ShiftNameEN | varchar(50) | The Shift Name (Thai) |
| Status | integer | Reserved |
| LastUpdate | datetime | Reserved |

1. MCurrency

| Field Name | Data Type | Description |
| --- | --- | --- |
| currencyDenomId | integer | Currency Demon Id |
| currencyId | integer | Currency Id |
| denomTypeId | integer | Demon Type Id |
| denomValue | float | Currency Value |
| abbreviation | varchar | Short Description |
| description | varchar | Full Description |

1. MCoupon

| Field Name | Data Type | Description |
| --- | --- | --- |
| couponId | integer | Coupon Id |
| couponValue | float | Coupon Value |
| abbreviation | varchar | Short Description |
| description | varchar | Full Description |

1. TSBShift

| Field Name | Data Type | Description |
| --- | --- | --- |
| TSBShiftId | PK, integer | Primary Key (auto) |
| TSBId | FK, varchar(10) | TSB Id. |
| ShiftId | FK, integer | Shift Id. |
| UserId | FK, varchar(10) | User Id (CTC). |
| FullNameEN | varchar(150) | Full Name (English) |
| FullNameTH | varchar(150) | Full Name (Thai) |
| Begin | datetime | Start of Shift date time |
| End | datetime | End of Shift date time |
| Status | integer | Reserved |
| LastUpdate | datetime | Reserved |

1. UserShift

| Field Name | Data Type | Description |
| --- | --- | --- |
| UserShiftId | PK, integer | Primary Key (auto) |
| TSBId | FK, varchar(10) | TSB Id. |
| ShiftId | FK, integer | Shift Id. |
| UserId | FK, varchar(10) | User Id (TC) |
| FullNameEN | varchar(150) | Full Name (English) |
| FullNameTH | varchar(150) | Full Name (Thai) |
| Begin | datetime | Start of Shift date time |
| End | datetime | End of Shift date time |
| Status | integer | Reserved |
| LastUpdate | datetime | Reserved |

1. TSBCreditTransaction

| Field Name | Data Type | | Description | |
| --- | --- | --- | --- | --- |
| TransactionId | | PK, integer | | Primary Key (auto) |
| GroupId | | varchar(36) | | GroupId (GUID) |
| TransactionDate | | datetime | | Transaction date time |
| TransactionType | | integer | | Transaction type |
| TSBId | | FK, varchar(10) | | TSB Id. |
| SupervisorId | | varchar(10) | | User Id (CTC). |
| CountST25 | | integer | | Number of .25 ST coin |
| CountST50 | | integer | | Number of .50 ST coin |
| CountBHT1 | | integer | | Number of 1 BHT coin |
| CountBHT2 | | integer | | Number of 2 BHT coin |
| CountBHT5 | | integer | | Number of 5 BHT coin |
| CountBHT10 | | integer | | Number of 10 BHT coin |
| CountBHT20 | | integer | | Number of 20 BHT bill |
| CountBHT50 | | integer | | Number of 50 BHT bill |
| CountBHT100 | | integer | | Number of 100 BHT bill |
| CountBHT500 | | integer | | Number of 500 BHT bill |
| CountBHT1000 | | integer | | Number of 1000 BHT |
| AmountST25 | | float | | Total amount of .25 ST coin in BHT |
| AmountST50 | | float | | Total amount of .50 ST coin in BHT |
| AmountBHT1 | | float | | Total amount of 1 BHT coin in BHT |
| AmountBHT2 | | float | | Total amount of 2 BHT coin in BHT |
| AmountBHT5 | | float | | Total amount of 5 BHT coin in BHT |
| AmountBHT10 | | float | | Total amount of 10 BHT coin in BHT |
| AmountBHT20 | | float | | Total amount of 20 BHT bill in BHT |
| AmountBHT50 | | float | | Total amount of 50 BHT bill in BHT |
| AmountBHT100 | | float | | Total amount of 100 BHT bill in BHT |
| AmountBHT500 | | float | | Total amount of 500 BHT bill in BHT |
| AmountBHT1000 | | float | | Total amount of 1000 BHT bill in BHT |
| Remark | | varchar(255) | | Remark |
| AdditionalBHT | | float | | Additional Amount in BHT |
| Status | | integer | | Reserved. |
| LastUpdate | | datetime | | Reserved. |

1. UserCreditBalance

| Field Name | Data Type | Description |
| --- | --- | --- |
| UserCreditId | PK, integer | Primary Key (auto) |
| UserCreditDate | datetime |  |
| State | integer |  |
| BagNo | varchar(10) | Bag Number. |
| BeltNo | varchar(20) | Security Belt Number. |
| TSBId | FK, varchar(10) | TSB Id |
| PlazaGroupId | FK, varchar(10) | Plaza Group Id |
| UserId | FK, varchar(10) | User Id (TC, CTC) |
| Status | integer | Reserved. |
| LastUpdate | datetime | Reserved. |

1. UserCreditTransaction

| Field Name | Data Type | | Description | |
| --- | --- | --- | --- | --- |
| TransactionId | | PK, integer | | Primary Key (auto) |
| TransactionDate | | datetime | | Transaction date time |
| TransactionType | | integer | | Transaction Type |
| RefId | | integer | | Reference Id (reserved for undo operation) |
| TSBId | | FK, varchar(10) | | TSB Id |
| PlazaGroupId | | FK, varchar(10) | | Plaza Group Id |
| UserId | | FK, varchar(10) | | User Id (TC, CTC) |
| UserCreditId | | FK, integer | | User Credit Id. |
| CountST25 | | integer | | Number of .25 ST coin |
| CountST50 | | integer | | Number of .50 ST coin |
| CountBHT1 | | integer | | Number of 1 BHT coin |
| CountBHT2 | | integer | | Number of 2 BHT coin |
| CountBHT5 | | integer | | Number of 5 BHT coin |
| CountBHT10 | | integer | | Number of 10 BHT coin |
| CountBHT20 | | integer | | Number of 20 BHT bill |
| CountBHT50 | | integer | | Number of 50 BHT bill |
| CountBHT100 | | integer | | Number of 100 BHT bill |
| CountBHT500 | | integer | | Number of 500 BHT bill |
| CountBHT1000 | | integer | | Number of 1000 BHT |
| AmountST25 | | float | | Total amount of .25 ST coin in BHT |
| AmountST50 | | float | | Total amount of .50 ST coin in BHT |
| AmountBHT1 | | float | | Total amount of 1 BHT coin in BHT |
| AmountBHT2 | | float | | Total amount of 2 BHT coin in BHT |
| AmountBHT5 | | float | | Total amount of 5 BHT coin in BHT |
| AmountBHT10 | | float | | Total amount of 10 BHT coin in BHT |
| AmountBHT20 | | float | | Total amount of 20 BHT bill in BHT |
| AmountBHT50 | | float | | Total amount of 50 BHT bill in BHT |
| AmountBHT100 | | float | | Total amount of 100 BHT bill in BHT |
| AmountBHT500 | | float | | Total amount of 500 BHT bill in BHT |
| AmountBHT1000 | | float | | Total amount of 1000 BHT bill in BHT |
| Remark | | varchar(255) | | Remark |
| Status | | integer | | Reserved. |
| LastUpdate | | datetime | | Reserved. |

1. TSBExchangeGroup

| Field Name | Data Type | Description |
| --- | --- | --- |
| TransactionId | PK, integer | Primary Key (auto) |
| TransactionDate | datetime | Transaction date time |
| TransactionType | integer | Transaction Type |
| GroupId | varchar(36) | Group Id (GUID) |
| TSBId | FK, varchar(10) | TSB Id. |
| UserId | FK, varchar(10) | User Id (CTC). |
| Status | integer | Reserved. |
| LastUpdate | datetime | Reserved. |

1. TSBExchangeTransaction

| Field Name | Data Type | Description |
| --- | --- | --- |
| TransactionId | PK, integer | Primary Key (auto) |
| TransactionDate | datetime | Transaction date time |
| TransactionType | integer | Transaction Type |
| GroupId | varchar(36) | Group Id (GUID) |
| FinishFlag | integer |  |
| TSBId | FK, varchar(10) | TSB Id. |
| UserId | FK, varchar(10) | User Id (CTC). |
| CountST25 | integer | Number of .25 ST coin |
| CountST50 | integer | Number of .50 ST coin |
| CountBHT1 | integer | Number of 1 BHT coin |
| CountBHT2 | integer | Number of 2 BHT coin |
| CountBHT5 | integer | Number of 5 BHT coin |
| CountBHT10 | integer | Number of 10 BHT coin |
| CountBHT20 | integer | Number of 20 BHT bill |
| CountBHT50 | integer | Number of 50 BHT bill |
| CountBHT100 | integer | Number of 100 BHT bill |
| CountBHT500 | integer | Number of 500 BHT bill |
| CountBHT1000 | integer | Number of 1000 BHT |
| AmountST25 | float | Total amount of .25 ST coin in BHT |
| AmountST50 | float | Total amount of .50 ST coin in BHT |
| AmountBHT1 | float | Total amount of 1 BHT coin in BHT |
| AmountBHT2 | float | Total amount of 2 BHT coin in BHT |
| AmountBHT5 | float | Total amount of 5 BHT coin in BHT |
| AmountBHT10 | float | Total amount of 10 BHT coin in BHT |
| AmountBHT20 | float | Total amount of 20 BHT bill in BHT |
| AmountBHT50 | float | Total amount of 50 BHT bill in BHT |
| AmountBHT100 | float | Total amount of 100 BHT bill in BHT |
| AmountBHT500 | float | Total amount of 500 BHT bill in BHT |
| AmountBHT1000 | float | Total amount of 1000 BHT bill in BHT |
| ExchangeBHT | float | Total amount Exchange in BHT |
| BorrowBHT | float | Total amount Borrow in BHT |
| AdditionalBHT | float | Total amount Addition in BHT |
| PeriodBegin | datetime | Begin borrow date time |
| PeriodEnd | datetime | End borrow date time |
| Remark | varchar(255) | Remark |
| Status | integer | Reserved. |
| LastUpdate | datetime | Reserved. |

1. TSBCouponTransaction

| Field Name | Data Type | Description |
| --- | --- | --- |
| CouponPK | integer | TA Server Primary Key |
| TransactionId | PK, integer | Primary Key (auto) |
| TransactionDate | datetime | Transaction date |
| TransactionType | integer | Transaction type |
| FinishFlag | integer |  |
| TSBId | FK, varchar(10) | TSB Id. |
| UserId | FK, varchar(10) | User Id (CTC). |
| UserReceive  Date | datetime |  |
| SoldBy | varchar(10) | The Sold User Id |
| SoldDate | datetime | Sold date time. |
| CouponId | varchar(20) | Coupon (Book) Serial Number |
| CouponType | integer | Coupon Type (35, 80) |
| Price | float | Price |
| Status | integer | Reserved. |
| LastUpdate | datetime | Reserved. |

1. UserCouponTransaction

| Field Name | Data Type | Description |
| --- | --- | --- |
| TransactionId | PK, integer | Primary Key (auto) |
| TransactionDate | datetime | Transaction date |
| TransactionType | integer | Transaction type |
| TSBId | FK, varchar(10) | TSB Id. |
| UserId | FK, varchar(10) | User Id (TC, CTC). |
| CouponId | varchar(20) | Coupon (Book) Serial Number |
| CouponType | integer | Coupon Type (35, 80) |
| Price | float | Price |
| Status | integer | Reserved. |
| LastUpdate | datetime | Reserved. |