A computer screen shot of a computer flowchart

AI-generated content may be incorrect.

@startuml

hide circle

skinparam linetype ortho

entity category {

\*categoryName: varchar(32) <<PK>>

active: tinyint

--

"Defines product classification"

}

entity province {

\*provinceID: varchar(2) <<PK>>

provinceName: varchar(20)

countryCode: varchar(50)

active: tinyint

--

"Represents regions where sites & suppliers are located"

}

entity posn {

\*positionID: int <<PK>>

permissionLevel: varchar(20)

active: tinyint

--

"Stores employee access roles"

}

entity txnstatus {

\*statusName: varchar(20) <<PK>>

statusDescription: varchar(100)

active: tinyint

--

"Defines transaction progress states"

}

entity txntype {

\*txnType: varchar(20) <<PK>>

active: tinyint

--

"Specifies types of transactions (e.g., order, return)"

}

entity vehicle {

\*vehicleType: varchar(20) <<PK>>

maxWeight: decimal(10)

HourlyTruckCost: decimal(10)

costPerKm: decimal(10)

notes: varchar(255)

active: tinyint

--

"Stores vehicle specs & costs for deliveries"

}

entity site {

\*siteID: int <<PK>>

siteName: varchar(50)

address: varchar(50)

address2: varchar(50)

city: varchar(50)

provinceID: varchar(2) <<FK>>

country: varchar(50)

postalCode: varchar(14)

phone: varchar(14)

dayOfWeek: varchar(50)

distanceFromWH: int

notes: varchar(255)

active: tinyint

--

"Represents warehouses, stores, or offices"

}

entity employee {

\*employeeID: int <<PK>>

Password: varchar(255)

FirstName: varchar(20)

LastName: varchar(20)

Email: varchar(100)

siteID: int <<FK>>

username: varchar(255) <<UNIQUE>>

notes: varchar(255)

locked: tinyint

active: tinyint

mainRole: varchar(50)

--

"Represents system users and their main role"

}

entity supplier {

\*supplierID: int <<PK>>

name: varchar(50)

address1: varchar(50)

address2: varchar(50)

city: varchar(50)

country: varchar(50)

provinceID: varchar(2) <<FK>>

postalcode: varchar(11)

phone: varchar(14)

contact: varchar(100)

notes: varchar(255)

active: tinyint

--

"Supplies inventory items"

}

entity deliveryMethod {

\*deliveryMethodID: int <<PK>>

name: varchar(50)

address1: varchar(50)

address2: varchar(50)

city: varchar(50)

country: varchar(50)

provinceID: varchar(2) <<FK>>

postalcode: varchar(11)

phone: varchar(14)

contact: varchar(100)

notes: varchar(255)

active: tinyint

--

"Defines methods of product delivery"

}

entity item {

\*itemID: int <<PK>>

name: varchar(100)

sku: varchar(20)

description: varchar(255)

categoryName: varchar(32) <<FK>>

weight: decimal(10)

caseSize: int

costPrice: decimal(10)

retailPrice: decimal(10)

supplierID: int <<FK>>

notes: varchar(255)

active: tinyint

imageLocation: varchar(255)

--

"Represents an inventory item"

}

entity delivery {

\*deliveryID: int <<PK>>

deliveryDate: datetime

distanceCost: decimal(10)

vehicleType: varchar(20) <<FK>>

notes: varchar(255)

--

"Tracks deliveries of items"

}

entity txn {

\*txnID: int <<PK>>

employeeID: int <<FK>>

siteIDTo: int <<FK>>

siteIDFrom: int <<FK>>

txnStatus: varchar(20) <<FK>>

shipDate: datetime

txnType: varchar(20) <<FK>>

barCode: varchar(50)

createdDate: datetime

deliveryID: int <<FK>>

emergencyDelivery: tinyint

notes: varchar(255)

--

"Records all transactions (sales, transfers, orders)"

}

entity txnaudit {

\*txnAuditID: int <<PK>>

createdDate: datetime

txnID: int <<FK>>

employeeID: int <<FK>>

txnType: varchar(20) <<FK>>

status: varchar(20) <<FK>>

txnDate: datetime

SiteID: int <<FK>>

deliveryID: int <<FK>>

notes: varchar(255)

--

"Logs all transaction changes for auditing"

}

entity txnitems {

\*txnID: int <<PK, FK>>

\*itemID: int <<PK, FK>>

quantity: int

notes: varchar(255)

--

"Links items to transactions"

}

entity inventory {

\*itemID: int <<PK, FK>>

\*siteID: int <<PK, FK>>

itemLocation: varchar(9)

quantity: int

reorderThreshold: int

optimumThreshold: int

notes: varchar(255)

--

"Tracks stock levels at each site"

}

entity user\_posn {

\*userID: int <<PK, FK>>

\*posnID: int <<PK, FK>>

--

"Allows users to have multiple permissions"

}

employee -- site : "Works at"

site -- province : "Located in"

supplier -- province : "Located in"

deliveryMethod -- province : "Located in"

item -- category : "Classified under"

item -- supplier : "Supplied by"

delivery -- vehicle : "Uses"

txn -- employee : "Processed by"

txn -- site : "Shipped from"

txn -- site : "Shipped to"

txn -- txnstatus : "Status"

txn -- txntype : "Type"

txn -- delivery : "Delivered via"

txnaudit -- txn : "Records"

txnaudit -- employee : "Updated by"

txnaudit -- txntype : "Related to"

txnaudit -- txnstatus : "Status"

txnaudit -- site : "Occurred at"

txnaudit -- delivery : "Linked to"

txnitems -- txn : "Part of"

txnitems -- item : "Includes"

inventory -- item : "Stocked as"

inventory -- site : "Stored at"

user\_posn -- employee : "Links"

user\_posn -- posn : "Links

@enduml