-- drop existing sequences...

drop sequence inventory\_seq;

—- drop existing tables

drop table inventory\_fact;

drop table branch\_plant\_dim;

drop table cust\_vendor\_dim;

drop table item\_master\_dim;

drop table addr\_cat\_code1;

drop table addr\_cat\_code2;

drop table item\_cat\_code1;

drop table item\_cat\_code2;

drop table company\_dim;

drop table zip\_codes;

drop table date\_dim;

drop table trans\_type\_dim;

drop table Currency\_Dim;

-- create sequences to be used as keys for specific dimension tables...

create sequence inventory\_seq START WITH 18301 increment by 1;

CREATE TABLE Currency\_Dim (Currency\_ID VarChar(3),Exchange\_Rate Number(8,2));

-- create address category code...

create table addr\_cat\_code1(

AddrCatCodeKey integer not null,

AddrCatCodeId varchar2(4) not null,

AddrCatDesc varchar2(30) not null,

constraint addr\_cat\_code1\_PK Primary Key(AddrCatCodeKey)

);

create table addr\_cat\_code2(

AddrCatCodeKey integer not null,

AddrCatCodeId varchar2(4) not null,

AddrCatDesc varchar2(30) not null,

constraint addr\_cat\_code2\_PK Primary Key(AddrCatCodeKey)

);

create table item\_cat\_code1(

ItemCatCodeKey integer not null,

ItemCatCodeId varchar2(4) not null,

ItemCatDesc varchar2(30) not null,

constraint item\_cat\_code1\_PK Primary Key(ItemCatCodeKey)

);

create table item\_cat\_code2(

ItemCatCodeKey integer not null,

ItemCatCodeId varchar2(4) not null,

ItemCatDesc varchar2(30) not null,

constraint item\_cat\_code2\_PK Primary Key(ItemCatCodeKey)

);

create table zip\_codes(

ZipKey integer not null,

ZipCity varchar2(20) not null,

ZipState varchar2(2) not null,

ZipZip integer,

ZipConsec integer, -- number of consecutive zip codes...

ZipWeight integer, -- weight rating for zip code genreation

constraint zip\_codes\_PK Primary Key(ZipKey)

);

create table date\_dim(

DateKey integer not Null,

DateJulian integer not Null, -- julian date in the format of yyyymmddd

CalDay integer not Null, -- from 1 to 31

CalMonth integer not Null, -- from 1 to 12

CalQuarter integer not Null, -- from 1 to 4

CalYear integer not Null, -- valid for 1900 to 2100

DayOfWeek integer not Null, -- 1 to 7 1 is Sunday, 2 is monday...

FiscalYear integer not Null,

FiscalPeriod integer not Null,

constraint date\_dim\_pk Primary Key(DateKey),

constraint date\_dim\_CalDay\_CS check (CalDay >= 0 and CalDay <= 31),

constraint date\_dim\_CalMonth\_CS check (CalMonth >= 0 and CalMonth <= 12),

constraint date\_dim\_CalQuarter\_CS check (CalQuarter >= 0 and CalQuarter <= 4),

constraint date\_dim\_CalYear\_CS check (CalYear >= 1900 and CalYear <= 2100),

constraint date\_dim\_DayOfWeek\_CS check (DayOfWeek >= 0 and DayOfWeek <= 6)

);

create table trans\_type\_dim(

TransTypeKey integer not null,

TransTypeCodeId varchar2(2) not null,

TransDescription varchar2(30) not null,

constraint trans\_type\_pk Primary Key(TransTypeKey),

constraint trans\_type\_TransTypeId\_CS check (TransTypeKey >= 1 and TransTypeKey <= 5)

-- TransTypeKey = 1 then TransTypeCodeId = 'IA' (inventory adjustment)

-- TransTypeKey = 2 then TransTypeCodeId = 'IT' (inventory transfer)

-- TransTypeKey = 3 then TransTypeCodeId = 'IS' (inventory simple issue)

-- TransTypeKey = 4 then TransTypeCodeId = 'OV' (purchase order receipt)

-- TransTypeKey = 5 then TransTypeCodeId = 'AR' (sales order shipment)

);

create table cust\_vendor\_dim(

CustVendorKey integer not null,

AddrBookId integer not null unique,

Name varchar2(30) not null,

Address varchar2(30) not null,

City varchar2(20) not null,

State varchar2(2) not null,

PrimZip integer not null,

Zip varchar2(10) not null,

Country varchar2(3) default 'USA',

AddrCatCode1 integer,

AddrCatCode2 integer,

constraint cust\_vend\_dim\_pk Primary Key(CustVendorKey),

constraint cust\_vend\_CatCode1\_FK Foreign Key(AddrCatCode1) references addr\_cat\_code1,

constraint cust\_vend\_CatCode2\_FK Foreign Key(AddrCatCode2) references addr\_cat\_code2

);

create table item\_master\_dim(

ItemMasterKey integer not null,

ShortItemId integer not null unique,

SecondItemId varchar2(30) not null,

ThirdItemId varchar2(30) not null,

ItemCatCode1 integer,

ItemCatCode2 integer,

ItemDesc varchar(30),

UOM varchar2(3),

constraint item\_master\_dim\_pk Primary Key(ItemMasterkey),

constraint item\_master\_CatCode1\_FK Foreign Key(ItemCatCode1) references item\_cat\_code1,

constraint item\_master\_CatCode2\_FK Foreign Key(ItemCatCode2) references item\_cat\_code2

);

create table company\_dim(

CompanyKey integer,

CompanyId varchar(5) not null,

CompanyName varchar2(30) not null,

CurrencyCode varchar2(5) not null,

CurrencyDesc varchar2(30)not null,

constraint company\_dim\_pk Primary Key (CompanyKey)

);

create table branch\_plant\_dim(

BranchPlantKey integer,

BranchPlantId varchar2(12) not null,

CompanyKey integer,

CarryingCost number(3,2) not null,

CostMethod varchar2(2) not null,

BPName varchar2(30),

constraint branch\_plant\_dim\_pk Primary Key (BranchPlantKey),

constraint branch\_plant\_CompanyId\_FK Foreign Key(CompanyKey) references company\_dim

);

create table inventory\_fact(

InventoryKey integer, -- sequence number used for fact table starting from record 18301

BranchPlantKey integer not NULL,

DateKey integer not NULL,

ItemMasterKey integer not NULL,

TransTypeKey integer not NULL,

CustVendorKey integer,

UnitCost decimal(12,4),

Quantity decimal(9,4),

ExtCost decimal(14,2),

constraint inv\_fact\_PK PRIMARY Key(InventoryKey),

constraint inv\_fact\_Branch\_Plant\_FK Foreign Key(BranchPlantKey) references branch\_plant\_dim,

constraint inv\_fact\_DateId\_FK Foreign Key(DateKey) references Date\_dim,

constraint inv\_fact\_CustVendorKey\_FK Foreign Key(CustVendorKey) references cust\_vendor\_dim,

constraint inv\_fact\_TransTypeId\_FK Foreign Key(TransTypeKey) references trans\_type\_dim,

constraint inv\_fact\_ShortItemId\_FK Foreign Key(ItemMasterKey) references item\_master\_dim );