**PRACTICAL 01**

**STAR :**

-- Generated by Oracle SQL Developer Data Modeler 4.1.0.873

-- at: 2018-07-27 12:26:45 IST

-- site: Oracle Database 11g

-- type: Oracle Database 11g

CREATE TABLE AUCTION\_SALES

(

LOW\_ESTIMATE NUMBER ,

HIGH\_ESTIMATE NUMBER ,

RESERVE\_PRICE NUMBER ,

SOLD\_PRICE NUMBER ,

ITEM\_ITEM\_KEY VARCHAR2 (15) NOT NULL ,

BUYER\_BUYER\_KEY VARCHAR2 (10) NOT NULL ,

TIME\_TIME\_KEY VARCHAR2 (20) NOT NULL ,

LOCATION\_LOCATION\_KEY VARCHAR2 (15) NOT NULL ,

CONSIGNOR\_CONSIGNOR\_KEY VARCHAR2 (10) NOT NULL ,

AUCTION\_SALES\_ID NUMBER NOT NULL

) ;

ALTER TABLE AUCTION\_SALES ADD CONSTRAINT AUCTION\_SALES\_PK PRIMARY KEY ( AUCTION\_SALES\_ID ) ;

CREATE TABLE BUYER

(

BUYER\_KEY VARCHAR2 (10) NOT NULL ,

BUYER\_NAME VARCHAR2 (25) ,

BUYER\_CODE VARCHAR2 (10) ,

BUYER\_TYPE VARCHAR2 (10) ,

BUYER\_ADDR VARCHAR2 (35) ,

BUYER\_STATE VARCHAR2 (25) ,

BUYER\_ZIP VARCHAR2 (10)

) ;

ALTER TABLE BUYER ADD CONSTRAINT BUYER\_PK PRIMARY KEY ( BUYER\_KEY ) ;

CREATE TABLE CONSIGNOR

(

CONSIGNOR\_KEY VARCHAR2 (10) NOT NULL ,

CONSIGNOR\_NAME VARCHAR2 (25) ,

CONSIGNOR\_CODE VARCHAR2 (10) ,

CONSIGNOR\_TYPE VARCHAR2 (15) ,

CONSIGNOR\_ADDR VARCHAR2 (25) ,

CONSIGNOR\_STATE VARCHAR2 (25) ,

CONSIGNOR\_ZIP VARCHAR2 (15)

) ;

ALTER TABLE CONSIGNOR ADD CONSTRAINT CONSIGNOR\_PK PRIMARY KEY ( CONSIGNOR\_KEY ) ;

CREATE TABLE ITEM

(

ITEM\_KEY VARCHAR2 (15) NOT NULL ,

ITEM\_NAME VARCHAR2 (25) NOT NULL ,

ITEM\_NUMBER NUMBER ,

DEPARTMENT VARCHAR2 (25) ,

SOLD\_FLAG CHAR (1)

) ;

ALTER TABLE ITEM ADD CONSTRAINT ITEM\_PKv1 PRIMARY KEY ( ITEM\_KEY ) ;

CREATE TABLE LOCATION

(

LOCATION\_KEY VARCHAR2 (15) NOT NULL ,

AUCTION\_LOCATION VARCHAR2 (25) ,

COUNTRY VARCHAR2 (25) ,

CONTINENT VARCHAR2 (25) ,

HEMISPHERE VARCHAR2 (25)

) ;

ALTER TABLE LOCATION ADD CONSTRAINT LOCATION\_PK PRIMARY KEY ( LOCATION\_KEY ) ;

CREATE TABLE TIME

(

TIME\_KEY VARCHAR2 (20) NOT NULL ,

"DATE" DATE ,

MONTH VARCHAR2 (20) ,

QUARTER VARCHAR2 (2) ,

YEAR NUMBER

) ;

ALTER TABLE TIME ADD CONSTRAINT TIME\_PK PRIMARY KEY ( TIME\_KEY ) ;

ALTER TABLE AUCTION\_SALES ADD CONSTRAINT AUCTION\_SALES\_BUYER\_FK FOREIGN KEY ( BUYER\_BUYER\_KEY ) REFERENCES BUYER ( BUYER\_KEY ) ;

ALTER TABLE AUCTION\_SALES ADD CONSTRAINT AUCTION\_SALES\_CONSIGNOR\_FK FOREIGN KEY ( CONSIGNOR\_CONSIGNOR\_KEY ) REFERENCES CONSIGNOR ( CONSIGNOR\_KEY ) ;

ALTER TABLE AUCTION\_SALES ADD CONSTRAINT AUCTION\_SALES\_ITEM\_FK FOREIGN KEY ( ITEM\_ITEM\_KEY ) REFERENCES ITEM ( ITEM\_KEY ) ;

ALTER TABLE AUCTION\_SALES ADD CONSTRAINT AUCTION\_SALES\_LOCATION\_FK FOREIGN KEY ( LOCATION\_LOCATION\_KEY ) REFERENCES LOCATION ( LOCATION\_KEY ) ;

ALTER TABLE AUCTION\_SALES ADD CONSTRAINT AUCTION\_SALES\_TIME\_FK FOREIGN KEY ( TIME\_TIME\_KEY ) REFERENCES TIME ( TIME\_KEY ) ;

CREATE SEQUENCE AUCTION\_SALES\_AUCTION\_SALES\_ID START WITH 1 NOCACHE ORDER ;

CREATE OR REPLACE TRIGGER AUCTION\_SALES\_AUCTION\_SALES\_ID BEFORE

INSERT ON AUCTION\_SALES FOR EACH ROW WHEN (NEW.AUCTION\_SALES\_ID IS NULL) BEGIN :NEW.AUCTION\_SALES\_ID := AUCTION\_SALES\_AUCTION\_SALES\_ID.NEXTVAL;

END;

/

-- Oracle SQL Developer Data Modeler Summary Report:

--

-- CREATE TABLE 6

-- CREATE INDEX 0

-- ALTER TABLE 11

-- CREATE VIEW 0

-- ALTER VIEW 0

-- CREATE PACKAGE 0

-- CREATE PACKAGE BODY 0

-- CREATE PROCEDURE 0

-- CREATE FUNCTION 0

-- CREATE TRIGGER 1

-- ALTER TRIGGER 0

-- CREATE COLLECTION TYPE 0

-- CREATE STRUCTURED TYPE 0

-- CREATE STRUCTURED TYPE BODY 0

-- CREATE CLUSTER 0

-- CREATE CONTEXT 0

-- CREATE DATABASE 0

-- CREATE DIMENSION 0

-- CREATE DIRECTORY 0

-- CREATE DISK GROUP 0

-- CREATE ROLE 0

-- CREATE ROLLBACK SEGMENT 0

-- CREATE SEQUENCE 1

-- CREATE MATERIALIZED VIEW 0

-- CREATE SYNONYM 0

-- CREATE TABLESPACE 0

-- CREATE USER 0

--

-- DROP TABLESPACE 0

-- DROP DATABASE 0

--

-- REDACTION POLICY 0

--

-- ORDS DROP SCHEMA 0

-- ORDS ENABLE SCHEMA 0

-- ORDS ENABLE OBJECT 0

--

-- ERRORS 0

-- WARNINGS 0

-- Generated by Oracle SQL Developer Data Modeler 4.1.0.873

-- at: 2018-08-03 16:28:32 IST

-- site: Oracle Database 11g

-- type: Oracle Database 11g

**SNOWFLAKE:**

CREATE TABLE Auction\_Sales

(

Low\_Estimate NUMBER ,

High\_Estimate NUMBER ,

Reserve\_Price NUMBER ,

Sold\_Price NUMBER ,

Item\_Item\_Key VARCHAR2 (4) NOT NULL ,

Consigner\_Consigner\_Key VARCHAR2 (4) NOT NULL ,

Time\_Time\_Key VARCHAR2 (4) NOT NULL ,

Location\_Location\_Key VARCHAR2 (4) NOT NULL ,

Buyer\_Buyer\_Key VARCHAR2 (4) NOT NULL ,

Location\_Country\_Code VARCHAR2 (2) NOT NULL ,

Auction\_Sales\_ID NUMBER NOT NULL

) ;

ALTER TABLE Auction\_Sales ADD CONSTRAINT Auction\_Sales\_PK PRIMARY KEY ( Auction\_Sales\_ID ) ;

-- ERROR: UK name length exceeds maximum allowed length(30)

ALTER TABLE Auction\_Sales ADD CONSTRAINT All\_UN UNIQUE ( Item\_Item\_Key , Location\_Location\_Key , Location\_Country\_Code ) ;

CREATE TABLE Buyer

(

Buyer\_Key VARCHAR2 (4) NOT NULL ,

Buyer\_Name VARCHAR2 (20) ,

Buyer\_Code INTEGER ,

Buyer\_Type VARCHAR2 (10) ,

Buyer\_Addr VARCHAR2 (30) ,

Buyer\_State VARCHAR2 (15) ,

Buyer\_Zip INTEGER

) ;

ALTER TABLE Buyer ADD CONSTRAINT Buyer\_PK PRIMARY KEY ( Buyer\_Key ) ;

CREATE TABLE Consigner

(

Consigner\_Key VARCHAR2 (4) NOT NULL ,

Consigner\_Name VARCHAR2 (20) ,

Consigner\_Code INTEGER ,

Consigner\_Type VARCHAR2 (10) ,

Consigner\_Addr VARCHAR2 (30) ,

Consigner\_State VARCHAR2 (15) ,

Consigner\_Zip INTEGER

) ;

ALTER TABLE Consigner ADD CONSTRAINT Consigner\_PK PRIMARY KEY ( Consigner\_Key ) ;

CREATE TABLE Country

(

Country\_Code VARCHAR2 (2) NOT NULL ,

Country\_name VARCHAR2 (15) ,

Continent VARCHAR2 (10) ,

Hemisphere CHAR (1)

) ;

ALTER TABLE Country ADD CONSTRAINT Country\_PK PRIMARY KEY ( Country\_Code ) ;

CREATE TABLE Item

(

Item\_Key VARCHAR2 (4) NOT NULL ,

Item\_Name VARCHAR2 (15) ,

Item\_Number INTEGER ,

Department VARCHAR2 (15) ,

Sold\_Flag CHAR (1)

) ;

ALTER TABLE Item ADD CONSTRAINT Item\_PK PRIMARY KEY ( Item\_Key ) ;

CREATE TABLE Location

(

Location\_Key VARCHAR2 (4) NOT NULL ,

Auction\_Location VARCHAR2 (20) ,

Country\_Country\_Code VARCHAR2 (2) NOT NULL

) ;

ALTER TABLE Location ADD CONSTRAINT Location\_PK PRIMARY KEY ( Location\_Key, Country\_Country\_Code ) ;

CREATE TABLE TIME

(

Time\_Key VARCHAR2 (4) NOT NULL ,

"Date" INTEGER ,

MONTH INTEGER ,

Quarter INTEGER ,

YEAR INTEGER

) ;

ALTER TABLE TIME ADD CONSTRAINT Time\_PK PRIMARY KEY ( Time\_Key ) ;

ALTER TABLE Auction\_Sales ADD CONSTRAINT Auction\_Sales\_Buyer\_FK FOREIGN KEY ( Buyer\_Buyer\_Key ) REFERENCES Buyer ( Buyer\_Key ) ;

ALTER TABLE Auction\_Sales ADD CONSTRAINT Auction\_Sales\_Consigner\_FK FOREIGN KEY ( Consigner\_Consigner\_Key ) REFERENCES Consigner ( Consigner\_Key ) ;

ALTER TABLE Auction\_Sales ADD CONSTRAINT Auction\_Sales\_Item\_FK FOREIGN KEY ( Item\_Item\_Key ) REFERENCES Item ( Item\_Key ) ;

ALTER TABLE Auction\_Sales ADD CONSTRAINT Auction\_Sales\_Location\_FK FOREIGN KEY ( Location\_Location\_Key, Location\_Country\_Code ) REFERENCES Location ( Location\_Key, Country\_Country\_Code ) ;

ALTER TABLE Auction\_Sales ADD CONSTRAINT Auction\_Sales\_Time\_FK FOREIGN KEY ( Time\_Time\_Key ) REFERENCES TIME ( Time\_Key ) ;

ALTER TABLE Location ADD CONSTRAINT Location\_Country\_FK FOREIGN KEY ( Country\_Country\_Code ) REFERENCES Country ( Country\_Code ) ;

CREATE SEQUENCE Auction\_Sales\_Auction\_Sales\_ID START WITH 1 NOCACHE ORDER ;

CREATE OR REPLACE TRIGGER Auction\_Sales\_Auction\_Sales\_ID BEFORE

INSERT ON Auction\_Sales FOR EACH ROW WHEN (NEW.Auction\_Sales\_ID IS NULL) BEGIN :NEW.Auction\_Sales\_ID := Auction\_Sales\_Auction\_Sales\_ID.NEXTVAL;

END;

/

-- Oracle SQL Developer Data Modeler Summary Report:

--

-- CREATE TABLE 7

-- CREATE INDEX 0

-- ALTER TABLE 14

-- CREATE VIEW 0

-- ALTER VIEW 0

-- CREATE PACKAGE 0

-- CREATE PACKAGE BODY 0

-- CREATE PROCEDURE 0

-- CREATE FUNCTION 0

-- CREATE TRIGGER 1

-- ALTER TRIGGER 0

-- CREATE COLLECTION TYPE 0

-- CREATE STRUCTURED TYPE 0

-- CREATE STRUCTURED TYPE BODY 0

-- CREATE CLUSTER 0

-- CREATE CONTEXT 0

-- CREATE DATABASE 0

-- CREATE DIMENSION 0

-- CREATE DIRECTORY 0

-- CREATE DISK GROUP 0

-- CREATE ROLE 0

-- CREATE ROLLBACK SEGMENT 0

-- CREATE SEQUENCE 1

-- CREATE MATERIALIZED VIEW 0

-- CREATE SYNONYM 0

-- CREATE TABLESPACE 0

-- CREATE USER 0

--

-- DROP TABLESPACE 0

-- DROP DATABASE 0

--

-- REDACTION POLICY 0

--

-- ORDS DROP SCHEMA 0

-- ORDS ENABLE SCHEMA 0

-- ORDS ENABLE OBJECT 0

--

-- ERRORS 0

-- WARNINGS 0