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* Creating Tables of Specialty Imports ER Diagram
-- drop table statements in inverse order of creating tables
DROP TABLE prospect;
DROP TABLE servwork;
DROP TABLE servinv;
DROP TABLE invoption;
DROP TABLE saleinv;
DROP TABLE baseoption;
DROP TABLE car;
DROP TABLE employee;
DROP TABLE options;
DROP TABLE customer;
-- drop sequence statements
DROP SEQUENCE saleinv_seq;
DROP SEQUENCE servinv seq;
-- create table statements
CREATE TABLE customer (
  cname CHAR(20),
  cstreet CHAR(20) CONSTRAINT customer cstreet nn NOT NULL,
  ccity CHAR(20) CONSTRAINT customer_ccity_nn NOT NULL, cprov CHAR(20) CONSTRAINT customer_cprov_nn NOT NULL,
  cpostal CHAR(10),
  chphone CHAR (13),
  cbphone CHAR (13),
  CONSTRAINT customer cname pk PRIMARY KEY (cname)
CREATE TABLE options (
  ocode CHAR(4),
            CHAR (30),
  odesc
            NUMERIC (7, 2),
  ocost
          NUMBER (7, 2),
  olist
  CONSTRAINT options ocode pk PRIMARY KEY (ocode)
);
CREATE TABLE employee (
  empname CHAR(20),
                   DATE CONSTRAINT employee startdate nn NOT NULL,
  startdate
                    CHAR (20),
  manager
  commissionrate NUMBER(2, 0),
                     CHAR (26),
  CONSTRAINT employee_empname_pk PRIMARY KEY (empname),
  CONSTRAINT employee_manager_fk FOREIGN KEY (manager) REFERENCES employee(empname)
);
CREATE TABLE car (
  serial CHAR(8),
  cname
CHAR (20),
make
CHAR (10)
CONSTRAINT car_make_nn NOT NULL,
model
CHAR (8)
CONSTRAINT car_model_nn NOT NULL,
cyear
CHAR (4)
CONSTRAINT car_cyear_nn NOT NULL,
color
CHAR (12)
CONSTRAINT car_color_nn NOT NULL,
trim
CHAR (16)
CONSTRAINT car_trim_nn NOT NULL,
  enginetype CHAR(10),
  purchinv CHAR(6),
  purchdate DATE,
  purchfrom CHAR(12),
  purchcost NUMBER (9,2),
  freightcost NUMBER (9,2),
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AS (purchcost + freightcost),
  totalcost
  listprice NUMBER (9,2),
  CONSTRAINT serial pk PRIMARY KEY (serial),
  CONSTRAINT car cname fk FOREIGN KEY (cname) REFERENCES customer (cname)
CREATE TABLE baseoption (
  serial CHAR(8),
  ocode CHAR(4),
  CONSTRAINT serial ocode pk PRIMARY KEY (serial, ocode),
  CONSTRAINT baseoption serial fk FOREIGN KEY (serial) REFERENCES car(serial),
  CONSTRAINT baseoption ocode fk FOREIGN KEY (ocode) REFERENCES options (ocode)
CREATE TABLE saleinv(
  saleinv CHAR(6),
  cname
                             CONSTRAINT saleinv cname nn NOT NULL,
               CHAR (20)
  salesman
              CHAR (20)
                              CONSTRAINT saleinv salesman nn NOT NULL,
 saledate serial CHAR(8) totalprice discount NUMBER(9,2),

AS (totalpric
                              CONSTRAINT saleinv saledate nn NOT NULL,
                             CONSTRAINT saleinv serial nn NOT NULL,
 net
AS (totalprice - discount),
tax
AS (0.13 * (totalprice - discount)),
licfee
NUMBER(6,2),
commission
NUMBER(8,2),
  tradeserial CHAR(8),
  tradeallow NUMBER (9,2),
  fire
               CHAR(1),
  collision CHAR(1),
liability CHAR(1),
             CHAR (1),
  property
  CONSTRAINT saleinv pk PRIMARY KEY (saleinv),
  CONSTRAINT saleinv cname fk FOREIGN KEY (cname) REFERENCES customer(cname),
  CONSTRAINT saleinv salesman fk FOREIGN KEY (salesman) REFERENCES employee (empname),
  CONSTRAINT saleinv serial fk FOREIGN KEY (serial) REFERENCES car(serial),
  CONSTRAINT saleinv_tradeserial_fk FOREIGN KEY (tradeserial) REFERENCES car(serial),
  CONSTRAINT saleinv fire ck CHECK (fire IN ('Y', 'N')),
  CONSTRAINT saleinv collision ck CHECK (collision IN ('Y', 'N')),
  CONSTRAINT saleinv liability ck CHECK (liability IN ('Y', 'N')),
  CONSTRAINT saleinv property ck CHECK (property IN ('Y', 'N')),
  CONSTRAINT saleinv saledate ck CHECK (saledate > TO DATE ('01-JAN-1990', 'DD-MON-YYYY'))
);
CREATE TABLE invoption (
  saleinv CHAR(6),
  ocode
              CHAR(4),
  saleprice NUMBER (7,2),
  CONSTRAINT saleinv ocode uq UNIQUE (saleinv, ocode),
  CONSTRAINT invoption saleinv fk FOREIGN KEY (saleinv) REFERENCES saleinv(saleinv),
  CONSTRAINT invoption ocode fk FOREIGN KEY (ocode) REFERENCES options (ocode)
);
CREATE TABLE servinv (
  servinv CHAR(5),
  serdate
                              CONSTRAINT servinv_serdate_nn NOT NULL,
 cname CHAR(20) (
serial CHAR(8) (
partscost NUMBER(7,2),
                             CONSTRAINT servinv_cname_nn NOT NULL,
                             CONSTRAINT servinv serial nn NOT NULL,
  laborcost
               NUMBER (7,2),
               AS ((partscost + laborcost) * 0.13),
               NUMBER (8,2),
  totalcost
  CONSTRAINT servinv_pk PRIMARY KEY (servinv),
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CONSTRAINT servinv cname fk FOREIGN KEY (cname) REFERENCES customer (cname),
  CONSTRAINT serving serial fk FOREIGN KEY (serial) REFERENCES car(serial)
);
CREATE TABLE servwork (
  servinv CHAR(5),
  workdesc CHAR(80),
  CONSTRAINT servinv workdesc pk PRIMARY KEY (servinv, workdesc),
  CONSTRAINT servwork servinv fk FOREIGN KEY (servinv) REFERENCES servinv(servinv)
);
CREATE TABLE prospect (
  cname CHAR(20) CONSTRAINT prospect cname nn NOT NULL,
 make CHAR(20) CONSTRAINT prospect_Channe_nn NOT NULL,
model CHAR(8),
cyear CHAR(4),
color CHAR(12),
         CHAR (16),
CHAR (4)
  trim
                      CONSTRAINT prospect ocode nn NOT NULL,
  CONSTRAINT prospect comp uq UNIQUE (cname, make, model, cyear, color, trim, ocode),
  CONSTRAINT prospect cname fk FOREIGN KEY (cname) REFERENCES customer (cname),
  CONSTRAINT prospect ocode fk FOREIGN KEY (ocode) REFERENCES options (ocode),
  CONSTRAINT prospect make ck CHECK (make IN ('ACURA', 'MERCEDES', 'LAND ROVER', 'JAGUAR'))
);
-- create sequence statement
CREATE SEQUENCE saleinv seq
   INCREMENT BY 1
     START WITH 1;
CREATE SEQUENCE servinv seq
   INCREMENT BY 1
     START WITH 1;
```