-- Jose Abreu --

-- April 14, 2014 --

-- Lab 9 --

```sql
DROP TABLE IF EXISTS Engineers;

DROP TABLE IF EXISTS Astronauts;

DROP TABLE IF EXISTS FlightOperators;

DROP TABLE IF EXISTS Spacecraft;

DROP TABLE IF EXISTS Crew;

DROP TABLE IF EXISTS Systems;

DROP TABLE IF EXISTS Parts;

DROP TABLE IF EXISTS Suppliers;

DROP TABLE IF EXISTS CatalogList;


-- Engineers --
CREATE TABLE Engineers (
  eid     char(4) not null,
  FirstName      text,
  LastName       text,
  HighestDegree   text,
  Age             NUMERIC(2,0),
  FavGame         text,
 primary key(eid)
);
```

```
-- Astronauts --

CREATE TABLE Astronauts (
  aid          char(4) not null,
  FirstName    text,
  LastName     text,
  YearsFlying  integer,
  Age                NUMERIC(2,0),
  GolfHandicap text,
  primary key(aid)
);




-- Flight Operators --

CREATE TABLE FlightOperators (
  oid          char(4) not null,
  FirstName    text,
  LastName     text,
  ChairPref    text,
  Age                NUMERIC(2,0),
  DrinkPref    text,
  primary key(oid)
);
```

```
-- Spacecraft --

CREATE TABLE Spacecraft (

  cid             char(4) not null,

  Name                    text,

  TailNumber              integer,

  WeightTons              integer,

  FuelType                text,

  CrewCapacity            integer,


  primary key(cid)

);


-- Crew --

CREATE TABLE Crew (

  aid             char(4) not null REFERENCES Astronauts(aid),

  cid                     char(4) not null REFERENCES spacecraft(cid),

  FOREIGN KEY (aid) REFERENCES Astronauts(aid),

  FOREIGN KEY (cid) REFERENCES Spacecraft(cid)



);


-- Systems --

CREATE TABLE Systems (
```

```sql
    cid             char(4) not null REFERENCES spacecraft(cid),

    SystemName          text not null UNIQUE,

    Description       text,

    DateInstalled         text,

    primary key(cid, SystemName)
);


-- Parts --

CREATE TABLE Parts (

    cid             char(4) not null REFERENCES Spacecraft(cid),

    SystemName          text UNIQUE REFERENCES Systems(SystemName),

    PartName            text UNIQUE,

    Description           text,

    FOREIGN KEY (SystemName) REFERENCES Systems(SystemName),

    primary key(cid,SystemName,PartName)


);


-- Suppliers --

CREATE TABLE  Suppliers(

    sid             char(4) not null,

    Name                text,

    Address             text,

    PaymentTerms                text,

    primary key(sid)
```

```
);
```

```
-- CatalogList --

CREATE TABLE CatalogList (

 sid              char(4) not null REFERENCES Suppliers(sid),

 PartSupplied        text REFERENCES Parts(PartName),


 primary key(sid)

);
```

```
-- INSERT CONTENT INTO TABLES--
```

```
-- Engineers --

INSERT INTO Engineers ( eid, FirstName, LastName, HighestDegree, Age, FavGame)

  VALUES('e001', 'Brendan', 'Mayhue', 'P.H.D', 23, 'Mario Bros. 3');
```

```
-- Astronauts --

INSERT INTO Astronauts( aid, Firstname, LastName, YearsFlying, Age, GolfHandicap)

  VALUES('a001', 'Monkey', 'Monkey', 6, 30, 10 );
```

```
-- Flight Operators --

INSERT INTO FlightOperators( oid, FirstName, LastName, ChairPref, Age, DrinkPref)
```

```
   VALUES('o001', 'Johnny', 'Bravo', 'Leather', 26, 'Chocolate Milk');



-- Spacecraft --

INSERT INTO Spacecraft( cid, Name, TailNumber, WeightTons, FuelType, CrewCapacity)

  VALUES('c001', 'Giant Awesome Ship', 90, 20, 'Rocket Fuel', 70);




-- Crew --

INSERT INTO Crew( aid, cid)

  VALUES('a001', 'c001');



-- Systems --

INSERT INTO Systems( cid, SystemName, Description, DateInstalled)

  VALUES('c001', 'Non-Exploder', 'Stops craft from exploding', 'March 3, 1999');



-- Parts --

INSERT INTO Parts( cid, SystemName, PartName, Description)

  VALUES('c001', 'Non-Exploder', 'Explosions', 'Helps with exploding');



-- Suppliers --

INSERT INTO Suppliers( sid, Name, Address, PaymentTerms)

  VALUES('s001', 'ExplosionsHQ', '1457 South Road', 'Cash');



-- Catalog List --

INSERT INTO CatalogList( sid, PartSupplied)
```

```
VALUES('s001', 'Explosions');
```