```sql
-- Fall Take Home Quiz 6
-- Kevin Ochoa

-- Question 1.1 Creating Your Source Table (2 pts)


if exists(select * from sys.objects where name='greek_source') drop table greek_source
go
create table greek_source
(source_id          int identity,
 source_name        varchar(25) not null,
 source_loc_one     varchar(20) not null,
 source_loc_two     varchar(20),
 source_found_date  date not null,
 source_flower      char(25) not null,
 source_type        char (02) not null,
 source_type_desc   varchar(25) not null,
 constraint pk_greek_source primary key (source_id)
)
go
insert into greek_source
select  'Delta Chi', 'Syracuse','Auburn','18900613', 'White Carnation', 'F', 'Fratrinity'  union all
select  'Alpha Phi', 'Harvard','Syracuse','18720123', 'Lily', 'S', 'Surority'  union all
select  'Kappa Kappa', 'Mansfield',null,'19190519', 'Rose', 'SI', 'Special Interest'  union all
select  'Theta Chi', 'Colgate','PennState','18830707', 'Red Carnation', 'F', 'Fratrinity'
go

-- (1.1) end of source table create and insert

select * from greek_source


--Question 1.2: Create Your Internal Mode for your 3 new Tables Here. As always, drop order is critical as this entire script must be re-
executable any number of times.
--Your Drops, Creates, Alters go here. (10 pts)
drop table greek_source

create table greek_type (
        source_type               char(2) PRIMARY KEY,
        source_type_desc        varchar(25) not null,
        )

create table greek_chapter (
 source_id          int identity PRIMARY KEY,
 source_name        varchar(25) not null,
 source_found_date  date not null,
 source_flower      char(25) not null,
 source_type char(02) FOREIGN KEY REFERENCES greek_type(source_type)
 )

create table greek_loc (
        source_id                       int not null,
        source_loc_one                varchar(20) not null,
        primary key (source_id, source_loc_one),
        FOREIGN KEY (source_id) REFERENCES greek_chapter(source_id)
)


go

-- (1.2) end of internal model build


--Question 1.3: Your Data Cleansing SQL Goes Here (3)
drop table greek_loc
drop table greek_chapter
drop table greek_type

UPDATE greek_source SET source_type_desc = 'Fraternity' WHERE source_type_desc = 'Fratrinity'

UPDATE greek_source SET source_type_desc = 'Sorority' WHERE source_type_desc = 'Surority'

go

-- (1.3) end of cleansing sql


--Question 1.4: Code Your Migration SQL Here. This will insert the data into the 3 new tables. (10pts)
INSERT INTO greek_type
        select distinct source_type, source_type_desc from greek_source
go

INSERT INTO greek_chapter
        select distinct source_name, source_found_date, source_flower, source_type from greek_source
go
```

```sql
INSERT INTO greek_loc(source_id, source_loc_one)
        select source_id, source_loc_one from greek_source
        union
        select source_id, source_loc_two from greek_source where source_loc_two is not null;


SELECT * FROM greek_chapter
SELECT * FROM greek_loc
SELECT * FROM greek_type
-- (1.4) end of migration sql



--Question 1.5: Select statement used to verify your migration was correct (5 pts)
--Be sure to see the example of what your output should look like.

select distinct c.source_id, c.source_name, l.source_loc_one, c.source_found_date, c.source_flower,
                t.source_type, t.source_type_desc
                from greek_chapter c
                        JOIN greek_type t ON c.source_type=t.source_type
                        JOIN greek_loc l ON c.source_id=l.source_id;

-- (1.5) end of verify sql
```