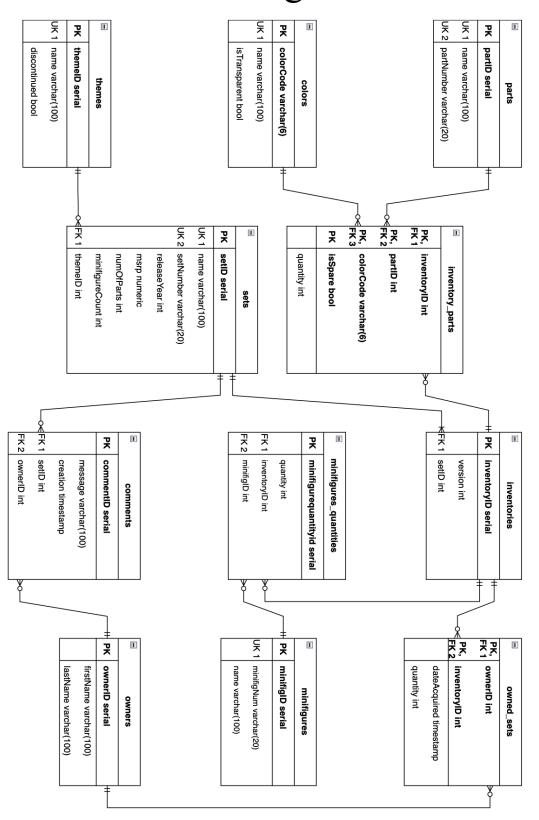
CECS 323 Section 6 / 7909

- Project 2: Plain AFOL -

Tasos Lilis Christ Nguyen

April 18th 2024

- ER Diagram -



- Insert -

colors:

```
insert into proj2.colors (colorcode, name, istransparent) values ('05131D', 'Black', false),
    ('FFFFFF', 'White', false),
    ('E4CD9E', 'Tan', false),
    ('A5A9B4', 'Metallic', false);
```

comments:

insert into proj2.comments (commentid, message, creation, setid, ownerid) values (1, 'Great set!', '2024-04-18 18:00:00.000000', 2, 1),

(2, 'Cool figures!', '2024-04-18 18:30:00.000000', 2, 1);

inventories:

insert into proj2.inventories (inventoryid, version, setid) values (1, 1, 1),

(2, 2, 1),

(3, 1, 2);

inventory parts:

insert into proj2.inventory_parts (inventoryid, partid, colorcode, quantity, isspare) values (1, 1, '05131D', 2, false),

- (1, 1, 'FFFFFF', 2, false),
- (1, 2, 'A5A9B4', 1, false),
- (2, 1, '05131D', 2, false),
- (2, 1, 'FFFFFF', 2, false),
- (2, 2, 'FFFFFF', 1, false),
- (3, 1, 'FFFFFF', 1, false),
- (3, 2, 'FFFFFF', 1, false),
- (3, 3, '05131D', 1, false);

minifigure_quantities:

insert into proj2.minifigure_quantities (minifigurequantityid, quantity, inventoryid, minifigureid)

values (1, 1, 1, 1),

- (2, 2, 1, 2),
- (3, 1, 2, 1),
- (4, 2, 2, 2),
- (5, 1, 3, 3),
- (6, 1, 3, 2);

minifigures:

insert into proj2.minifigures (minifigureid, minifigurenumber, name) values (1, 'fig-004422', 'Princess Leia, White Robe, Skirk'),

- (2, 'fig-003503', 'R2-D2, Flat Silver Dome, Dark Blue Print with Dark Pink Dots'),
 - (3, 'fig-013246', 'Nova Black Top, Sand Blue Pants'),
- (4, 'sw0465a', 'Yoda NY I Heart Torso, White Hair (TRU Times Square 2013 Exclusive)');

owned_sets:

insert into proj2.owned_sets (ownerid, inventoryid, dateacquired, quantity) values (1, 3, '2024-04-18 20:00:00.000000', 1),

 $(1, 2, '2024-04-18\ 20:00:00.0000000', 2);$

owners:

insert into proj2.owners (ownerid, firstname, lastname) values (1, 'Neal', 'Terrell');

parts:

insert into proj2.parts (partid, name, partnumber) values (1, 'Brick 1 x 4 ', '3010'),

- (2, 'Weapon Lightsaber Hilt with Bottom Ring', '64567'),
- (3, 'Plate 4 x 6', '3032');

sets:

insert into proj2.sets (setid, name, setnumber, releaseyear, msrp, numofparts, themeid, minifigurecount)

values (1, 'Luke Skywalker''s X-wing Fighter', '75301', 2021, 49.99, 474, 1, 4), (2, 'Nova''s Room', '41755', 2023, 19.99, 179, 2, 2);

themes:

insert into proj2.themes (themeid, name, discontinued) values (1, 'Star Wars', false),

(2, 'Friends', false);

- Select -

1. Select the names of all Minifigures that are included in at least one Inventory. [Be wary of duplicates!]

select distinct name
from minifigures
inner join minifigure_quantities on
minifigures.minifigureid = minifigure quantities.minifigureid;

2. Select the names of all Minifigures that are never included in an Inventory.

select name
from minifigures
left outer join minifigure_quantities on
minifigures.minifigureid = minifigure_quantities.minifigureid
where minifigure_quantities.minifigureid is null;

3. Determine the total number of parts in the owned collection of the user named Neal.

select sum(inventory_parts.quantity * owned_sets.quantity) as totalParts from inventory_parts
inner join inventories on inventory_parts.inventoryid = inventories.inventoryid
inner join owned_sets on inventories.inventoryid = owned_sets.inventoryid
inner join owners on owned_sets.ownerid = owners.ownerid
where owners.firstname = 'Neal';

4. Select the name of the User whose collection of sets is worth the most, i.e., with the maximum total MSRP of all sets owned by that user.

```
select firstname, lastname
from owners
inner join owned_sets on owners.ownerid = owned_sets.ownerid
inner join inventories on owned_sets.inventoryid = inventories.inventoryid
inner join sets on inventories.setid = sets.setid
group by firstname, lastname
order by sum (msrp * quantity) desc
fetch first 1 row only;
```

5. In a single query, count the number of "play" and "investment" sets. An "investment" set has an MSRP greater than \$50, and is either from the Lego Star Wars theme, or was released at least 5 years ago (from today); otherwise it is a "play" set. Your query should produce two rows of output, with status and count columns.

```
select
  case when
    (
    msrp > 50 and
    (themeid = 1 or releaseyear <= extract(year from current_date) - 5)
    )
    then 'Investment'
    else 'Play'
    end as status,
    count(*) as count
from sets
group by status;</pre>
```