Business Rules:

**Nail polish:**

1. One nail polish has at most one brand.
2. One brand has many nail polishes.
3. One nail polish can have one to many colors (i.e. many PolishColor entries).
4. One nail polish has one finish.
5. One nail polish has one individual shade description.
6. One collection can have many nail polishes.
7. A nail polish may be associated with at most one collection, but it is not required to be associated with any collection.
8. One nail polish has one color temperature.
9. One nail polish has one tone.
10. One nail polish has one bottle size.
11. One nail polish has one opacity.
12. One has polish can have one favorites score.
13. One nail polish has one swatch image.
14. One nail polish has one launch price.
15. One event can have many nail polishes.
16. A nail polish may be associated with at most one event, but is not required to be associated with any event.

**PolishColor:**

1. Each PolishColor observation must have one Polish (i.e. PolishID must exist in Polish)
2. One PolishColor entry must reference at least one valid color (red, blue, black, holographic).
3. One PolishColor entry must reference at least one valid color role (base, shimmer, flake).
4. One PolishColor color can appear in multiple entries per polish if it serves different roles (gold flakes AND gold shimmer).

**Brand:**

1. One brand has one name.
2. One brand can have multiple aliases over time, but is not required to have any alias.
3. One brand has one country.
4. One brand has one parent company, but is not required to have a parent company.
5. One brand has one founding year.
6. A brand’s founding year corresponds to the day before the end date of their previous alias (if applicable).
7. One brand has one headquarters/operating location.
8. One brand has one logo.
9. One brand has one category.

**BrandAlias:**

1. One alias may belong to one brand.
2. Each brand alias must be unique to that brand.
3. An alias must not be the same as the brand’s current name.
4. Each alias must have a start date.
5. Each alias must have an end date.

**Collection:**

1. One collection has one brand.
2. A brand can have many collections.
3. One collection has one name.
4. One collection has one season.
5. One collection has one year.
6. One collection has one theme.
7. One collection may have one description.
8. One collection may be an influencer collaboration, but does not have to be.
9. If a collection is not an influencer collaboration, then Influencer\_Name must be null.

**Finish:**

1. One finish can have multiple polishes.
2. A polish must have at least one or more finishes.
3. One finish must have one description.
4. One polish can have multiple finishes.
5. One finish may have additional details, but does not have to (FinishDetailID).

**FinishDetail**

1. One finish detail must have one corresponding finish (FinishID must be a real ID).
2. One finish detail must have a one name.
3. One finished detail must have one description.

**PolishFinish**

1. One PolishFinish entry must reference one valid Polish.
2. One PolishFinish entry must reference one valid Finish.
3. One PolishFinish entry can reference one valid FinishDetail entry, but does not have to.
4. One PolishFinish entry must have one DryTexture.

**Event:**

1. One event has one name.
2. One event has one description.
3. One event has one start date.
4. One event may have one end date.
5. One event has one theme.
6. One event has one organizing group.
7. One event must have one or more brands.
8. One event must have one or more polishes.

**Organizers (**for events):

1. One organizer has one name.
2. One organizer has one founding year.
3. One organizer must have one or more events.
4. One organizer must have one description.