To: Professor Dana Edberg

From: Eric Adorno, Ryan Swain, Peter Rahmanifar

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Subject: Logical Data Model Modifications

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The original logical data model that we built had a lot more tables than the modified model. We modified our data model so that it has 7 tables now instead of the vast amount of tables we had before. Some of the changes we made are in the following:

1. The first change we made was to split the purchase table into Toy and Registration tables with a 1:1 relationship. The reasoning for this is that toys can be returned or have a report filed on them without having a registration filled out.
2. The second change was to disconnected the Registration from Question and Answer tables. The Registration will now store single-answer questions in WhereFirstLearn, RelationshipToUser and FutureBuy attributes. For the multiple-answer feature question, a Feature table was created. Answers to that question will be stored in an intersection with Feature and Registration.
3. We simplified the Survey tables. Now Question and Answer tables are linked directly to a Survey table with a single intersection.
4. We removed the Reporter type entity as a reporter can be identified by the ID that is associated with a single report.
5. We added an Employee table and linked it to the Report table because it was missing before.
6. Finally, we created a unary relationship in the Test entity. TestDate was added to the concatenated Primary Key, and ParentTestDate was added as a foreign key.

All of the modifications that were made should make the data model easier to work with that will give us the most out of our data.