Group 3

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Outland Adventures

**Milestone #2**

**Business Rules**

The business rules for our ERD are as follows:

1. The Transaction table compiles all the information about a given transaction. A transaction can have one customer associated with it. A Customer may purchase a one or more trips, one or more pieces of equipment, or both. Transaction type will categorize the manner in which the transaction occurred, whether it was from the website or a different source. Transaction date with catalogue the date the transaction occurred. Total price for each transaction is an aggregation of any trips purchased and their total price as well as any inventory purchased and its total price. Finally, each transaction may have one employee associated with it depending on the employee’s role and the type of transaction that is occurring.
2. The Customer table will contain a unique ID for each customer, their first, last name, and email.
3. The Employee table will contain first last and last name, preferred name, department ID, and their role.
4. The Department table will identify the name of the department referenced by department ID.
5. The Trip table will contain the a unique ID for each trip, a location ID, and a price for the trip. The trip table is also linked to the inventory table in a one to many relationship. If inventory is rented for a particular trip, the trip id can be referenced for the piece or pieces of inventory that will be used on that trip.
6. The location table specifies the name of the location referenced by location ID.
7. The Equipment and Inventory tables contain all information about the equipment being sold or rented. The Inventory table contains a inventory ID, item name, price to rent or buy, the equipment ID, and any trip that equipment may be associated with. The Equipment table specifies the type of equipment, the date it was manufactured, and an aggregate attribute which calculates the quantity of equipment based on type.

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