Milestone #1: Outland Adventures Case Study

Silver Team:

Shayla Bradley, Patrick Ellis, Yawa Hallo, Abigail Klein

Bellevue University

December 4, 2022

**Business Rules:**

An EMPLOYEE is assigned to one DEPARTMENT.

A DEPARTMENT can employ many EMPLOYEES.

A CUSTOMER can purchase or rent multiple EQUIPMENT.

An EQUIPMENT can be purchased or rented by multiple CUSTOMERS.

An EMPLOYEE can be assigned to multiple CUSTOMER\_BOOKINGS.

A CUSTOMER\_BOOKING can have one EMPLOYEE.

A CUSTOMER can have multiple CUSTOMER\_BOOKINGS.

A CUSTOMER\_BOOKING has one CUSTOMER.

A CUSTOMER\_BOOKING can have one AIRFARE price.

An AIRFARE price can have multiple CUSTOMER\_BOOKINGS.

A CUSTOMER can have multiple CUSTOMER\_ORDERS.

A CUSTOMER\_ORDER has one CUSTOMER.

A CUSTOMER\_ORDER can have multiple EQUIPMENT.

An EQUIPMENT can have multiple CUSTOMER\_ORDERS.

A TRIP\_LOCATION can have multiple AIRFARES.

An AIRFARE can have multiple TRIP\_LOCATION.

A TRIP\_LOCATION can have multiple VISA\_REQUIREMENTS.

A VISA\_REQUIREMENT can be used for multiple TRIP\_LOCATION.

A TRIP\_LOCATION can have multiple INOCULATIONS.

An INOCULATION can have multiple TRIP\_LOCATION.

**Assumptions**:

* Department table is needed to assign privileges to employees.
* We assume that all customers are living in the USA.
* Duke and Mac will be assigned to each booking individually by their employee ID.
* Customers can book more than one trip.
* Customer bookings will vary with airfare prices.
* Airfare will vary during different times of years.
* Visa requirements are based on any country within Asia, Africa, and Southern Europe.
* There will be multiple visa requirements for different trip locations.
* Multiple vaccinations will be required for different trip locations.
* Blythe and Jim need access to all tables.
* John ‘Mac’ and D.B. ‘Duke’ would need access to the trips, airfare, visa requirements, and inoculations tables.
* Dimitrios would need access to the supply order table, supplier info table, and the equipment inventory table.
* Anita Gallegos would need access to the trips and equipment tables.
* Mei Wong needs access to trips, bookings, equipment, airfare, visa requirements, and inoculations table.

