

## Appendix A

### Outland Adventures

### Full Case Study

Team Name: The Outlanders



N/A. (n.d.). Hiking Clipart. Clipart Panda.  
Retrieved July 9, 2022, from  
<http://images.clipartpanda.com/hiking-clipart-hike.gif>

Team Members:

Chris Beatty - <https://github.com/AnotherByte/csd-310.git>  
Brian Gossett - <https://github.com/BrianGossett/csd-310.git>  
Larissa Passamani Lima - <https://github.com/passamani15/csd-310.git>  
Christeen Safar - <https://github.com/ChristeenS/csd-310.git>  
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Module 11.2 Assignment  
Milestone #4  
CSD310-330H\_2225\_DD  
Database Development and Use  
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### The Outlanders - Group Introduction

The Outlanders was formed on July 4, 2022, to handle Case Study for Outland Adventures. Our team is made of five eager students in the 330H Cohort Software Development Program at Bellevue University instructed by Professor Sampson and Professor Woods.

#### **Chris Beatty**

Has experience in database development. He also spends his time automating file storage and media on his home server.

#### **Brian Gossett**

Was a programmer in the military in web development. He is working on a degree here for his resume in the hopes of working for FAANG.

#### **Larissa Passamani Lima**

Is fairly new to database development. She has a degree in Criminal Justice, and experience in Supply Chain Operations. She is currently working as a Wave Technician for a Flow Center.

#### **Christeen Safar**

Has no experience in database development. She has two Bachelor's degrees in Child Development. Now, she works as a Personal Stylist at Macy's, but she is planning to work in her new major.

#### **Michele Speidel**

Is an insurance professional and has experience in database development. She currently works in a remote position as a Business Analyst.

## Case Study Selected

Outland Adventure

### Outland Adventures Case Study

Blythe Timmerson and Jim Ford, both outdoor enthusiasts, opened Outland Adventures as a sideline to their full time careers. They hoped to cater to other people who enjoyed hiking and camping in far off places. They thought that if they could arrange guided trips, provide the equipment needed, and develop the right advertising, then Outland Adventures might just succeed. When it became apparent that they had identified a much needed market, they both quit their current jobs and devoted their full time and energies into their joint venture.

When they started running Outland Adventures, they hired two guides; John 'Mac' MacNell, and D.B. 'Duke' Marland. These two would be in charge of organizing and planning the trips, including investigating airfares, visa requirements, and inoculations.. Blythe and Jim also hired Anita Gallegos to take over the marketing aspect of the organization. Dimitrios Stravopolous is responsible for ordering supplies for the trips as well as keeping the equipment inventory up to date. Customers may either rent or buy their equipment outright. Mei Wong has just been hired to develop an ecommerce site where potential customers can find out information about Outland Adventures, check on trip schedules, and purchase hiking and camping equipment.

While Blythe and Jim have been taking care of the administrative and office operations, they have recently started wondering if it was time to optimize the organization. Some of the questions to be answered are:

Do enough customers buy equipment to keep equipment sales?

So far, they have conducted treks in Africa, Asia, and Southern Europe. Is there anyone of those locations that has a downward trend in bookings?

They are a little concerned about the age of some of the inventory. Are there inventory items that are over five years old?

### Assumptions

- Owners are considered in the employee table
- Each destination has its own flat airline fee
- Only new equipment is purchased to sell or rent but the owners brought new equipment to the business which can be several years old
- Card number represents payment information customer would provide
- Every customer and employee on a trip is going on all excursions
- Items include equipment, supplies, and safety essentials
- Full inventory reports or available items reports were not created for this case study
- Camping is part of the excursion activities
- If customer\_order table shows "is\_rental" field as "0" or "false", customer decided to buy equipment
- Each excursion will be documented per day (If excursion takes multiple days, it will be listed once per day)
- Each of the Guides will be required to have each of the items required for the trip
- If a trip requires an item, only one person will be required to check out the item
- The project does not provide interactive website reports for customers to check trip schedules or purchase equipment. There is an interactive report to show equipment over X years old.
- All trips are assumed to be paid for so there is no invoice or billing information provided in this report.
- The business has expanded since this case study was written to conduct trips in North America, Northern Europe, and South America
- Customer inoculation records were updated while evaluating this case study. Customers provided additional information since the tables were originally created.

## A brief description of the case study

### **Mission**

To provide adventurous guided trips for the hiking and camping enthusiasts

### **Description of Case Study**

Outland Adventures was founded back in January 1, 2022 when Blythe Timmerson and Jim Ford decided to take a risk and dedicate their time and energy into the vision of what would become Outland Adventures. Their primary focus of the company was to share their passion with others.

The reason Outland Adventures has been thriving is because the organization focuses on providing the best quality experience with well informative guided tours, safety precautions, and adventure to far off places with great destinations that have been fully experienced priorly in order for the guides to offer the most well crafted excursions. Choosing the “Right Adventure” is the primary focus of the company to continue improving the experience provided to its customers.

### **Mission of success**

- Focusing on customers
- Employing a great management team
- Keeping detailed financial records
- Continuing to innovate
- Pursuing long-term goals
- Adapting to new technology

### Location of Store

The store is located at **2309 Iowa Center Rd, Neverland IA 09989**. The location allows customers to purchase the necessary equipment for their trip as well as providing information about their excursions to customers in person.

### Adventure to Far Off Places

The idea of creating the “Outland Adventure” project was to find great destinations for curious travelers who are eager to discover new realms. These destinations are the world's best places to travel to; according to the experts. The locations where they have conducted treks are Africa, Asia, Northern Europe, Southern Europe, North America and many more. The founders of Outland Adventure were planning to arrange guided trips to the world's most wondrous places to create the best travel experience for their customers.

### The “Right Adventures”

Outland Adventures was designed to offer great destination guided tours. The company has taken the time and efforts to get to know the places before adding them to their destination guides in order to provide unique experiences that cannot be found with any other guided organization. They have spent many months crafting excursions to different regions of the world. These regions have been purposely picked to be different from one another in order to provide a unique experience that cannot be repeated in another trip.

## Behind the Organization

### **Owners**

Blythe Timmerson and Jim Ford are the owners and CEOs of Outland Adventures. They both share the passion for the outdoors, and continually devote their full time and energy into their joint venture.

### **Tour Guides**

With 25 years of combined tour guiding experience, John 'Mac' MacNell, and D.B. 'Duke' Marland are the tour guides for every excursion.

They are also in charge of organizing and planning the trips, including investigating airfares, visa requirements, and inoculations.

### **Support Team**

**Anita Gallegos** has 15 years of experience as a Marketing Analyst and is in charge of all of the marketing aspects of the organization.

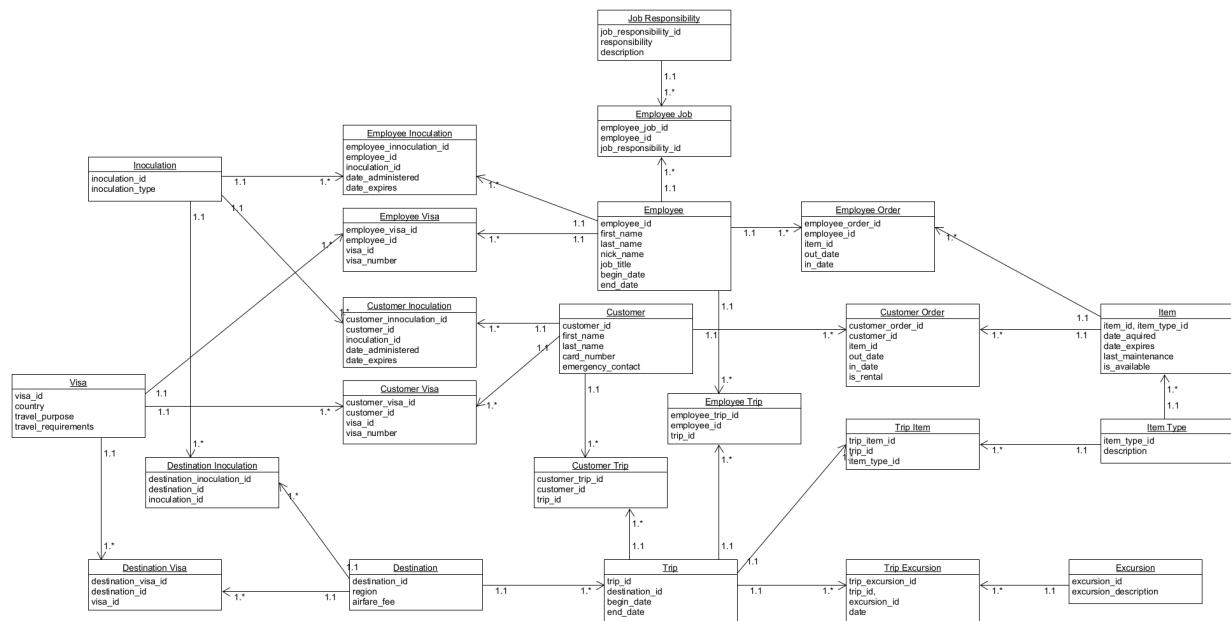
**Mei Wong** has 10 years of experience in building excellent E-Commerce websites. She was just recently hired by Outland Adventures to build an E-Commerce site for the organization, to allow potential customers the ability to find out about trip schedules, types of excursions, and purchase or rent hiking and camping equipment in advance.

**Dimitrios Stravopolous** has 7 years of experience managing inventory. He was hired to be in charge of ordering supplies for the trips as well as keeping the equipment inventory up to date.

## Organization Chart



## The Group ORD



List of Reports

- 1.Customer Buy
- 2.Customer Rent vs Buy
- 3.Region Total Trips
- 4.Region Total Customers
- 5.Trip Region Total Customer
- 6.Equipment Needed Per Trip
- 7.Customer Visa And Shot Records
- 8.Employee Visa And Shot Records
- 9.Trip Schedule
- 10-A.Item By Age
- 10-B.Item By Age Interactive

## **1.Customer Buy Report**

## **2.Customer Rent vs Buy Report**

### Purpose of Reports

These reports will help determine if enough customers buy enough equipment to keep equipment sales.

-The CEOs, Blythe and Jim, need these reports to analyze business optimization strategies regarding the sales of equipment.

### Report Description

These two reports show how the equipment sales are going. Report 1. displays the customer's name, the item they purchased, and the date they purchased the item. Report 2. is a count of the items rented vs the items bought. Each time a customer orders an item, a record is created. This report compares the number of rental records against the number of purchase records. The result helps visualize the popularity of each option (rent vs buy).

### **1.Customer Buy Report**

```
SELECT C.first_name, C.last_name, IT.description, case when CO.is_rental = TRUE then 'Rent'  
else 'Buy' end AS 'Buy or Rent', CO.out_date  
FROM item AS I  
INNER JOIN item_type AS IT  
    ON I.item_type_id = IT.item_type_id  
INNER JOIN customer_order AS CO  
    ON I.item_id = CO.item_id  
INNER JOIN customer AS C  
    ON CO.customer_id = C.customer_id  
WHERE CO.is_rental = false;
```

```
-- DISPLAYING customer_buy_report Report --
First Name: John
Last Name: Smith
Description: Mystery Box
Buy or Rent: Buy
Out date: 2022-09-01

First Name: Jimmy
Last Name: Newtron
Description: Mystery Box
Buy or Rent: Buy
Out date: 2022-09-01
```

```
Press any key to continue... █
```

## 2.Customer Rent vs Buy Report Report

```
SELECT case when CO.is_rental = TRUE then 'Rent' else 'Buy' end AS 'RentVsBuy' ,
COUNT(*)
FROM item AS I
INNER JOIN item_type AS IT
      ON I.item_type_id = IT.item_type_id
INNER JOIN customer_order AS CO
      ON I.item_id = CO.item_id
INNER JOIN customer AS C
      ON CO.customer_id = C.customer_id
GROUP BY CO.is_rental
```

```
-- DISPLAYING customer_rent_vs_buy_report Report --
Rent Vs Buy: Rent
Count: 42

Rent Vs Buy: Buy
Count: 2
```

```
Press any key to continue... █
```

- 3.Region Total Trips Report**
- 4.Region Total Customers**
- 5.Trip Region Total Customer**

#### Purpose of Reports

These reports provide the total trips per region, the total customer count scheduled for each trip, and the customer count for each trip date to determine which destinations are popular vs unpopular.

-The CEOs, Blythe and Jim, need reports to show booking trends, specifically to determine if Africa, Asia, Southern Europe have downward trends in bookings

-Anita will need these reports to focus marketing efforts on certain regions based on business optimization goals

#### Report Description

These three reports show how trip scheduling is going. Report 3. displays the number of trips planned per region. Report 4. Shows the number of customers scheduled for each trip region. Report 5. shows the date of each trip, which region is scheduled and how many customers are scheduled for each tip date. The results help determine how to optimize company resources, plan trips, and determine a concentrated marketing plan.

#### **3.Region Total Trips Report**

List of destinations and how many trips to each destination (popular; not popular)  
WHERE D.region='Africa' OR D.region='Asia' OR D.region='Southern Europe'

```
SELECT D.region AS 'Region', COUNT(T.trip_id) AS 'Total Trips'  
FROM trip AS T  
RIGHT JOIN destination AS D  
ON T.destination_id = D.destination_id  
GROUP by D.region  
ORDER by D.region;
```

```
Press any key to continue...
-- DISPLAYING region_total_trips_report Report --
Region: Africa
Total Trips: 2

Region: Asia
Total Trips: 2

Region: North America
Total Trips: 2

Region: Northern Europe
Total Trips: 2

Region: South America
Total Trips: 0

Region: Southern Europe
Total Trips: 1
```

```
Press any key to continue...■
```

#### 4.Region Total Customers Report

```
SELECT D.region AS 'Region', COUNT(CT.customer_trip_id) AS 'Total Customer Trips'
FROM customer_trip AS CT
RIGHT JOIN trip AS T
    ON CT.trip_id = T.trip_id
RIGHT JOIN destination AS D
    ON T.destination_id = D.destination_id
GROUP by D.region
ORDER by D.region;
```

```

Press any key to continue...
-- DISPLAYING region_total_customers_report Report --
Region: Africa
Total Customer Trips: 4

Region: Asia
Total Customer Trips: 6

Region: North America
Total Customer Trips: 8

Region: Northern Europe
Total Customer Trips: 10

Region: South America
Total Customer Trips: 0

Region: Southern Europe
Total Customer Trips: 4

Press any key to continue...■

```

## 5.Trip Region Total Customer Report

```

SELECT T.trip_id AS 'Trip Number', D.region AS 'Region', T.begin_date AS 'Trip date',
COUNT(CT.customer_trip_id) AS 'Total Customer Trips'
FROM customer_trip AS CT
RIGHT JOIN trip AS T
    ON CT.trip_id = T.trip_id
RIGHT JOIN destination AS D
    ON T.destination_id = D.destination_id
GROUP by T.trip_id
ORDER by T.begin_date;

```

	Trip Number	Region	Trip date	Total Customer Trips
▶	NULL	South America	NULL	0
	1	Asia	2022-06-01	2
	2	North America	2022-07-12	4
	3	Asia	2022-07-23	4
	4	Southern Europe	2022-08-13	4
	5	Africa	2022-09-03	2
	6	Northern Europe	2022-10-20	2
	7	Northern Europe	2022-11-01	8
	8	Africa	2022-12-07	2
	9	North America	2023-01-05	4

```
Press any key to continue...
-- DISPLAYING trip_region_total_customer_report Report --
Trip Number: None
Region: South America
Trip date: None
Total Customer: 0

Trip Number: 1
Region: Asia
Trip date: 2022-06-01
Total Customer: 2

Trip Number: 2
Region: North America
Trip date: 2022-07-12
Total Customer: 4

Trip Number: 3
Region: Asia
Trip date: 2022-07-23
Total Customer: 4

Trip Number: 4
Region: Southern Europe
Trip date: 2022-08-13
Total Customer: 4
```

```
Trip Number: 5
Region: Africa
Trip date: 2022-09-03
Total Customer: 2

Trip Number: 6
Region: Northern Europe
Trip date: 2022-10-20
Total Customer: 2

Trip Number: 7
Region: Northern Europe
Trip date: 2022-11-01
Total Customer: 8

Trip Number: 8
Region: Africa
Trip date: 2022-12-07
Total Customer: 2

Trip Number: 9
Region: North America
Trip date: 2023-01-05
Total Customer: 4
```

```
Press any key to continue...
```

## **6.Equipment Needed Per Trip Report**

### Purpose of Report

This report provides the equipment needed by region.

-Tour Guides and Customers will need to know what equipment is required per Trip so they can prepare to rent or sell.

-Dimitrios needs reports for trip inventory to identify what equipment is needed.

### Report Description

This report displays all of the required items for each of the trips. Each trip is listed for as many rows as items that are required on that trip. The trip\_id and region name are displayed for each trip. The item description for each item needed is displayed rather than an item\_type\_id so it can be easily read. A “WHERE T.trip\_id = ?” clause could be run on the view to limit the results to one trip.

## **6.Equipment Needed Per Trip Report**

```
--equipment needed per trip
SELECT T.trip_id, D.region, IT.description
FROM trip AS T
JOIN destination AS D
    ON T.destination_id = D.destination_id
JOIN trip_item AS TI
    ON T.trip_id = TI.trip_id
JOIN item_type AS IT
    ON TI.item_type_id = IT.item_type_id
ORDER BY T.trip_id, IT.description;
```

```
-- DISPLAYING equipment_needed_per_trip Report --
Trip id: 1
Region: Asia
Description: First aid kit

Trip id: 1
Region: Asia
Description: Sunscreen

Trip id: 1
Region: Asia
Description: Trekking poles

Trip id: 1
Region: Asia
Description: Water bottle

Trip id: 2
Region: North America
Description: First aid kit

Trip id: 2
Region: North America
Description: Sunscreen

Trip id: 2
Region: North America
Description: Trekking poles
```

```
Trip id: 2
Region: North America
Description: Water bottle

Trip id: 3
Region: Asia
Description: First aid kit

Trip id: 3
Region: Asia
Description: Lighter

Trip id: 3
Region: Asia
Description: Sunscreen

Trip id: 3
Region: Asia
Description: Tent

Trip id: 3
Region: Asia
Description: Trekking poles
```

```
Trip id: 3
Region: Asia
Description: Water bottle

Trip id: 4
Region: Southern Europe
Description: First aid kit

Trip id: 4
Region: Southern Europe
Description: Sunscreen

Trip id: 4
Region: Southern Europe
Description: Trekking poles

Trip id: 4
Region: Southern Europe
Description: Water bottle

Trip id: 5
Region: Africa
Description: First aid kit

Trip id: 5
Region: Africa
Description: Fishing Tools

Trip id: 5
Region: Africa
Description: Sunscreen
```

```
Trip id: 5
Region: Africa
Description: Trekking poles

Trip id: 5
Region: Africa
Description: Water bottle

Trip id: 6
Region: Northern Europe
Description: First aid kit

Trip id: 6
Region: Northern Europe
Description: Sunscreen

Trip id: 6
Region: Northern Europe
Description: Tent

Trip id: 6
Region: Northern Europe
Description: Trekking poles

Trip id: 6
Region: Northern Europe
Description: Water bottle
```

```
Trip id: 7
Region: Northern Europe
Description: Bug Spray

Trip id: 7
Region: Northern Europe
Description: First aid kit

Trip id: 7
Region: Northern Europe
Description: Fishing Tools

Trip id: 7
Region: Northern Europe
Description: Food

Trip id: 7
Region: Northern Europe
Description: Hula hoop

Trip id: 7
Region: Northern Europe
Description: Mystery Box
```

```
Trip id: 7
Region: Northern Europe
Description: Shovel

Trip id: 7
Region: Northern Europe
Description: Sunscreen

Trip id: 7
Region: Northern Europe
Description: Tent

Trip id: 7
Region: Northern Europe
Description: Trekking poles

Trip id: 7
Region: Northern Europe
Description: Water bottle

Trip id: 8
Region: Africa
Description: First aid kit

Trip id: 8
Region: Africa
Description: Fishing Tools
```

```
Trip id: 8
Region: Africa
Description: Scuba Gear

Trip id: 8
Region: Africa
Description: Small Knife

Trip id: 8
Region: Africa
Description: Sunscreen

Trip id: 8
Region: Africa
Description: Trekking poles

Trip id: 8
Region: Africa
Description: Water bottle

Trip id: 9
Region: North America
Description: Bug Spray

Trip id: 9
Region: North America
Description: First aid kit
```

```
Trip id: 9
Region: North America
Description: Food

Trip id: 9
Region: North America
Description: Sunscreen

Trip id: 9
Region: North America
Description: Tent

Trip id: 9
Region: North America
Description: Trekking poles

Trip id: 9
Region: North America
Description: Water bottle
```

```
Press any key to continue... █
```

## **7.Customer Visa And Shot Records**

## **8.Employee Visa And Shot Records**

### Purpose of Reports

These reports provide inoculation and visa details for each customer or employee for the regions and dates they plan to travel.

-Administration and Guides need these reports to determine inoculation and visa compliance

### Report Description

Report 7. provides customer details for each scheduled trip. It gives the guides a quick view of which customer(s) have satisfied their inoculation and visa requirements. If “NULL” is in the “has\_inoculation\_type” or “has\_visa\_in\_country”, the guides will be able to quickly gather that information and notify the customer(s) of the requirements.

Report 8. provides employee details for each scheduled trip. It gives the Administration a quick view of which employee(s) have satisfied their inoculation and visa requirements. If “NULL” is in the “has\_inoculation\_type” or “has\_visa\_in\_country”, the Administration will be able to quickly gather that information and notify the appropriate employee(s) of the requirements.

### **7.Customer Visa and Shot Records Report**

Guide(s) & Customers going on which trips inoculation and visa requirements

-confirm visa

-confirm shots

```
SELECT abc.customer_trip_id, abc.trip_id, a.begin_date, a.end_date, b.first_name,
b.last_name, c.region, e.inoculation_type AS required_inoculation_type,
report_data.has_inoculation_type, report_data.date_expires, visa_report.required_country_visa,
visa_report.has_visa_in_country, visa_report.visa_number
FROM customer_trip AS abc
INNER JOIN trip AS a
ON abc.trip_id = a.trip_id
INNER JOIN customer AS b
ON abc.customer_id = b.customer_id
INNER JOIN destination AS c
ON a.destination_id = c.destination_id
INNER JOIN destination_inoculation AS d
ON c.destination_id = d.destination_id
INNER JOIN inoculation AS e
ON d.inoculation_id = e.inoculation_id
LEFT JOIN (
    SELECT a.customer_trip_id, g.first_name, c.inoculation_type AS has_inoculation_type,
b.date_expires, b.inoculation_id, b.customer_inoculation_id
FROM customer AS g
    INNER JOIN customer_inoculation AS b
    ON g.customer_id = b.customer_id
    INNER JOIN customer_trip AS a
    ON g.customer_id = a.customer_id
    INNER JOIN inoculation AS c
    ON b.inoculation_id = c.inoculation_id
) report_data ON abc.customer_trip_id = report_data.customer_trip_id AND e.inoculation_type
= report_data.has_inoculation_type
INNER JOIN (
    SELECT abc.customer_trip_id, abc.trip_id, a.begin_date, a.end_date, b.first_name,
b.last_name, c.region, e.country AS required_country_visa, report_data.has_visa_in_country,
report_data.visa_number
    FROM customer_trip AS abc
    INNER JOIN trip AS a
    ON abc.trip_id = a.trip_id
    INNER JOIN customer AS b
    ON abc.customer_id = b.customer_id
    INNER JOIN destination AS c
    ON a.destination_id = c.destination_id
    INNER JOIN destination_visa AS d
    ON c.destination_id = d.destination_id
    INNER JOIN visa AS E
```

```

ON d.visa_id = e.visa_id
LEFT JOIN (
    SELECT a.customer_trip_id, g.first_name, c.country AS has_visa_in_ctry,
b.visa_number, b.visa_id
    FROM customer AS g
    INNER JOIN customer_visa AS b
    ON g.customer_id = b.customer_id
    INNER JOIN customer_trip AS a
    ON g.customer_id = a.customer_id
    INNER JOIN visa AS c
    ON b.visa_id = c.visa_id
) report_data ON abc.customer_trip_id = report_data.customer_trip_id AND e.country =
report_data.has_visa_in_ctry
) visa_report ON abc.customer_trip_id = visa_report.customer_trip_id;

```

	customer_trip_id	trip_id	begin_date	end_date	first_name	last_name	region	required_inoculation_type	has_inoculation_type	date_expires	required_country_visa	has_visa_in_ctry	visa_number
1	1	2022-06-01	2022-06-15	Zack	Petisso	Asia	Chickenpox	NULL	NULL	China	China	978061948	
2	1	2022-06-01	2022-06-15	Fabricio	Pontic	Asia	Chickenpox	NULL	NULL	China	China	6089625897	
3	2	2022-07-12	2022-07-18	Pickle	Rick	North America	Covid-19	Covid-19	2023-02-01	Colombia	NULL	NULL	
4	2	2022-07-12	2022-07-18	Mary	Louis	North America	Covid-19	Covid-19	2023-02-01	Colombia	NULL	NULL	
5	2	2022-07-12	2022-07-18	Pepe	Yee	North America	Covid-19	Covid-19	2023-02-01	Colombia	NULL	NULL	
6	2	2022-07-12	2022-07-18	Fernanda	Clark	North America	Covid-19	Covid-19	2023-02-01	Colombia	NULL	NULL	
7	3	2022-07-23	2022-08-06	Zack	Petisso	Asia	Chickenpox	NULL	NULL	China	China	978061948	
8	3	2022-07-23	2022-08-06	Fabricio	Pontic	Asia	Chickenpox	NULL	NULL	China	China	6089625897	
9	3	2022-07-23	2022-08-06	Pepe	Yee	Asia	Chickenpox	NULL	NULL	China	China	858736102	
10	3	2022-07-23	2022-08-06	Jimmy	Newtron	Asia	Chickenpox	NULL	NULL	China	China	6576895802	
11	4	2022-08-13	2022-08-27	Zack	Petisso	Southern Europe	Covid-19	Covid-19	2023-02-01	Italy	Italy	4512365845	
12	4	2022-08-13	2022-08-27	Fabricio	Pontic	Southern Europe	Covid-19	Covid-19	2023-02-01	Italy	NULL	NULL	
13	4	2022-08-13	2022-08-27	Mary	Louis	Southern Europe	Covid-19	Covid-19	2023-02-01	Italy	Italy	3502991909	
14	4	2022-08-13	2022-08-27	John	Smith	Southern Europe	Covid-19	Covid-19	2023-02-01	Italy	NULL	NULL	
15	5	2022-09-03	2022-09-18	Fabricio	Pontic	Africa	Covid-19	Covid-19	2023-02-01	South Africa	South Africa	8417167036	
16	5	2022-09-03	2022-09-18	Mary	Louis	Africa	Covid-19	Covid-19	2023-02-01	South Africa	South Africa	8054617431	
17	6	2022-10-20	2022-10-30	Fabricio	Pontic	Northern Europe	Covid-19	Covid-19	2023-02-01	Greece	Greece	4582154632	
18	6	2022-10-20	2022-10-30	Mary	Louis	Northern Europe	Covid-19	Covid-19	2023-02-01	Greece	Greece	5421596325	
19	7	2022-11-01	2022-11-25	Zack	Petisso	Northern Europe	Covid-19	Covid-19	2023-02-01	Greece	NULL	NULL	

```
-- DISPLAYING customer_visa_and_shot_records Report --
Customer trip id: 15
Trip id: 5
Begin date: 2022-09-03
End date: 2022-09-18
First name: Fabricio
Last name: Pontic
Region: Africa
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: South Africa
Has visa in country: South Africa
Visa number: 8417167036

Customer trip id: 16
Trip id: 5
Begin date: 2022-09-03
End date: 2022-09-18
First name: Mary
Last name: Louis
Region: Africa
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: South Africa
Has visa in country: South Africa
Visa number: 8054617431
```

```
Customer trip id: 28
Trip id: 8
Begin date: 2022-12-07
End date: 2022-12-14
First name: Fernanda
Last name: Clark
Region: Africa
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: South Africa
Has visa in country: South Africa
Visa number: 4245774308

Customer trip id: 27
Trip id: 8
Begin date: 2022-12-07
End date: 2022-12-14
First name: Zack
Last name: Petisso
Region: Africa
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: South Africa
Has visa in country: South Africa
Visa number: 3178154381
```

```
Customer trip id: 5
Trip id: 2
Begin date: 2022-07-12
End date: 2022-07-18
First name: Pepe
Last name: Yee
Region: North America
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Colombia
Has visa in country: None
Visa number: None
```

```
Customer trip id: 3
Trip id: 2
Begin date: 2022-07-12
End date: 2022-07-18
First name: Pickle
Last name: Rick
Region: North America
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Colombia
Has visa in country: None
Visa number: None
```

```
Customer trip id: 6
Trip id: 2
Begin date: 2022-07-12
End date: 2022-07-18
First name: Fernanda
Last name: Clark
Region: North America
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Colombia
Has visa in country: None
Visa number: None
```

```
Customer trip id: 4
Trip id: 2
Begin date: 2022-07-12
End date: 2022-07-18
First name: Mary
Last name: Louis
Region: North America
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Colombia
Has visa in country: None
Visa number: None
```

```
Customer trip id: 29
Trip id: 9
Begin date: 2023-01-05
End date: 2023-01-10
First name: Rick
Last name: Roll
Region: North America
Required inoculation type: Covid-19
Has inoculation type: None
Date expires: None
Required country visa: Colombia
Has visa in country: None
Visa number: None
```

```
Customer trip id: 32
Trip id: 9
Begin date: 2023-01-05
End date: 2023-01-10
First name: Jimmy
Last name: Newton
Region: North America
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Colombia
Has visa in country: None
Visa number: None
```

```
Customer trip id: 31
Trip id: 9
Begin date: 2023-01-05
End date: 2023-01-10
First name: John
Last name: Smith
Region: North America
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Colombia
Has visa in country: None
Visa number: None
```

```
Customer trip id: 30
Trip id: 9
Begin date: 2023-01-05
End date: 2023-01-10
First name: Mary
Last name: Louis
Region: North America
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Colombia
Has visa in country: None
Visa number: None
```

```
Customer trip id: 14
Trip id: 4
Begin date: 2022-08-13
End date: 2022-08-27
First name: John
Last name: Smith
Region: Southern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Italy
Has visa in country: None
Visa number: None
```

```
Customer trip id: 12
Trip id: 4
Begin date: 2022-08-13
End date: 2022-08-27
First name: Fabricio
Last name: Pontic
Region: Southern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Italy
Has visa in country: None
Visa number: None
```

```
Customer trip id: 13
Trip id: 4
Begin date: 2022-08-13
End date: 2022-08-27
First name: Mary
Last name: Louis
Region: Southern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Italy
Has visa in country: Italy
Visa number: 3502991909
```

```
Customer trip id: 11
Trip id: 4
Begin date: 2022-08-13
End date: 2022-08-27
First name: Zack
Last name: Petisso
Region: Southern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Italy
Has visa in country: Italy
Visa number: 4512365845
```

```
Customer trip id: 17
Trip id: 6
Begin date: 2022-10-20
End date: 2022-10-30
First name: Fabricio
Last name: Pontic
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: Greece
Visa number: 4582154632
```

```
Customer trip id: 18
Trip id: 6
Begin date: 2022-10-20
End date: 2022-10-30
First name: Mary
Last name: Louis
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: Greece
Visa number: 5421596325
```

```
Customer trip id: 26
Trip id: 7
Begin date: 2022-11-01
End date: 2022-11-25
First name: Jimmy
Last name: Newtron
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: None
Visa number: None
```

```
Customer trip id: 25
Trip id: 7
Begin date: 2022-11-01
End date: 2022-11-25
First name: John
Last name: Smith
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: Greece
Visa number: 9407205279
```

```
Customer trip id: 24
Trip id: 7
Begin date: 2022-11-01
End date: 2022-11-25
First name: Pepe
Last name: Yee
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: None
Visa number: None
```

```
Customer trip id: 23
Trip id: 7
Begin date: 2022-11-01
End date: 2022-11-25
First name: Pickle
Last name: Rick
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: None
Visa number: None
```

```
Customer trip id: 22
Trip id: 7
Begin date: 2022-11-01
End date: 2022-11-25
First name: Fernanda
Last name: Clark
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: Greece
Visa number: 1548456325
```

```
Customer trip id: 21
Trip id: 7
Begin date: 2022-11-01
End date: 2022-11-25
First name: Fabricio
Last name: Pontic
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: Greece
Visa number: 4582154632
```

```
Customer trip id: 20
Trip id: 7
Begin date: 2022-11-01
End date: 2022-11-25
First name: Mary
Last name: Louis
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: Greece
Visa number: 5421596325
```

```
Customer trip id: 19
Trip id: 7
Begin date: 2022-11-01
End date: 2022-11-25
First name: Zack
Last name: Petisso
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: None
Visa number: None
```

```
Customer trip id: 2
Trip id: 1
Begin date: 2022-06-01
End date: 2022-06-15
First name: Fabricio
Last name: Pontic
Region: Asia
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: China
Has visa in country: China
Visa number: 6089625897
```

```
Customer trip id: 1
Trip id: 1
Begin date: 2022-06-01
End date: 2022-06-15
First name: Zack
Last name: Petisso
Region: Asia
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: China
Has visa in country: China
Visa number: 978061948
```

```
Customer trip id: 10
Trip id: 3
Begin date: 2022-07-23
End date: 2022-08-06
First name: Jimmy
Last name: Newtron
Region: Asia
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: China
Has visa in country: China
Visa number: 6576895802
```

```
Customer trip id: 9
Trip id: 3
Begin date: 2022-07-23
End date: 2022-08-06
First name: Pepe
Last name: Yee
Region: Asia
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: China
Has visa in country: China
Visa number: 8587366102
```

```
Customer trip id: 8
Trip id: 3
Begin date: 2022-07-23
End date: 2022-08-06
First name: Fabricio
Last name: Pontic
Region: Asia
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: China
Has visa in country: China
Visa number: 6089625897
```

```
Customer trip id: 7
Trip id: 3
Begin date: 2022-07-23
End date: 2022-08-06
First name: Zack
Last name: Petisso
Region: Asia
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: China
Has visa in country: China
Visa number: 978061948
```

```
Press any key to continue... █
```

## [8.Employee Visa And Shot Records Report](#)

```
CREATE VIEW employee_visa_and_shot_records AS
SELECT abc.employee_trip_id, abc.trip_id, a.begin_date, a.end_date, b.first_name,
b.last_name, c.region, e.inoculation_type AS required_inoculation_type,
report_data.has_inoculation_type, report_data.date_expires, visa_report.required_country_visa,
visa_report.has_visa_in_country, visa_report.visa_number
FROM employee_trip AS abc
INNER JOIN trip AS a
ON abc.trip_id = a.trip_id
INNER JOIN employee AS b
ON abc.employee_id = b.employee_id
INNER JOIN destination AS c
ON a.destination_id = c.destination_id
INNER JOIN destination_inoculation AS d
ON c.destination_id = d.destination_id
INNER JOIN inoculation AS e
ON d.inoculation_id = e.inoculation_id
LEFT JOIN (
    SELECT a.employee_trip_id, g.first_name, c.inoculation_type AS has_inoculation_type,
b.date_expires, b.inoculation_id, b.employee_inoculation_id
    FROM employee AS g
        INNER JOIN employee_inoculation AS b
        ON g.employee_id = b.employee_id
        INNER JOIN employee_trip AS a
        ON g.employee_id = a.employee_id
        INNER JOIN inoculation AS c
        ON b.inoculation_id = c.inoculation_id
) report_data ON abc.employee_trip_id = report_data.employee_trip_id AND e.inoculation_type
= report_data.has_inoculation_type
INNER JOIN (
    SELECT abc.employee_trip_id, abc.trip_id, a.begin_date, a.end_date, b.first_name,
b.last_name, c.region, e.country AS required_country_visa, report_data.has_visa_in_country,
report_data.visa_number
    FROM employee_trip AS abc
    INNER JOIN trip AS a
    ON abc.trip_id = a.trip_id
    INNER JOIN employee AS b
    ON abc.employee_id = b.employee_id
    INNER JOIN destination AS c
    ON a.destination_id = c.destination_id
    INNER JOIN destination_visa AS d
    ON c.destination_id = d.destination_id
```

```

    INNER JOIN visa AS E
    ON d.visa_id = e.visa_id
    LEFT JOIN (
        SELECT a.employee_trip_id, g.first_name, c.country AS has_visa_in_country,
        b.visa_number, b.visa_id
        FROM employee AS g
        INNER JOIN employee_visa AS b
        ON g.employee_id = b.employee_id
        INNER JOIN employee_trip AS a
        ON g.employee_id = a.employee_id
        INNER JOIN visa AS c
        ON b.visa_id = c.visa_id
    ) report_data ON abc.employee_trip_id = report_data.employee_trip_id AND e.country =
    report_data.has_visa_in_country
) visa_report ON abc.employee_trip_id = visa_report.employee_trip_id;

```

	employee_trip_id	trip_id	begin_date	end_date	first_name	last_name	region	required_inoculation_type	has_inoculation_type	date_expires	required_country_visa	has_visa_in_country	visa_number
▶	6	5	2022-09-03	2022-09-18	John	MacNell	Africa	Covid-19	Covid-19	2023-02-01	South Africa	South Africa	3421590256
10	8	8	2022-12-07	2022-12-14	John	MacNell	Africa	Covid-19	Covid-19	2023-02-01	South Africa	South Africa	3421590256
2	2	2	2022-07-12	2022-07-18	D.B.	Marland	North America	Covid-19	Covid-19	2023-02-01	Colombia	NULL	NULL
11	9	9	2023-01-05	2023-01-10	D.B.	Marland	North America	Covid-19	Covid-19	2023-02-01	Colombia	NULL	NULL
5	4	2022-08-13	2022-08-27	D.B.	Marland	Southern Europe	Covid-19	Covid-19	Covid-19	2023-02-01	Italy	Italy	222592611
7	6	2022-10-20	2022-10-30	John	MacNell	Northern Europe	Covid-19	Covid-19	Covid-19	2023-02-01	Greece	Greece	4465333391
8	7	2022-11-01	2022-11-25	John	MacNell	Northern Europe	Covid-19	Covid-19	Covid-19	2023-02-01	Greece	Greece	4465333391
9	7	2022-11-01	2022-11-25	D.B.	Marland	Northern Europe	Covid-19	Covid-19	Covid-19	2023-02-01	Greece	Greece	892417636
1	1	2022-06-01	2022-06-15	John	MacNell	Asia	Chickenpox	NULL	NULL	China	China	China	3070696915
3	3	2022-07-23	2022-08-06	John	MacNell	Asia	Chickenpox	NULL	NULL	China	China	China	3070696915
4	3	2022-07-23	2022-08-06	D.B.	Marland	Asia	Chickenpox	NULL	NULL	China	China	China	9689705174

```

-- DISPLAYING employee_visa_and_shot_records Report --
employee trip id: 6
Trip id: 5
Begin date: 2022-09-03
End date: 2022-09-18
First name: John
Last name: MacNell
Region: Africa
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: South Africa
Has visa in country: South Africa
Visa number: 3421590256

employee trip id: 10
Trip id: 8
Begin date: 2022-12-07
End date: 2022-12-14
First name: John
Last name: MacNell
Region: Africa
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: South Africa
Has visa in country: South Africa
Visa number: 3421590256

```

```
employee trip id: 2
Trip id: 2
Begin date: 2022-07-12
End date: 2022-07-18
First name: D.B.
Last name: Marland
Region: North America
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Colombia
Has visa in country: None
Visa number: None
```

```
employee trip id: 11
Trip id: 9
Begin date: 2023-01-05
End date: 2023-01-10
First name: D.B.
Last name: Marland
Region: North America
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Colombia
Has visa in country: None
Visa number: None
```

```
employee trip id: 5
Trip id: 4
Begin date: 2022-08-13
End date: 2022-08-27
First name: D.B.
Last name: Marland
Region: Southern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Italy
Has visa in country: Italy
Visa number: 222592611
```

```
employee trip id: 7
Trip id: 6
Begin date: 2022-10-20
End date: 2022-10-30
First name: John
Last name: MacNell
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: Greece
Visa number: 4465333391
```

```
employee trip id: 8
Trip id: 7
Begin date: 2022-11-01
End date: 2022-11-25
First name: John
Last name: MacNell
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: Greece
Visa number: 4465333391
```

```
employee trip id: 9
Trip id: 7
Begin date: 2022-11-01
End date: 2022-11-25
First name: D.B.
Last name: Marland
Region: Northern Europe
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: Greece
Has visa in country: Greece
Visa number: 892417636
```

```
employee trip id: 1
Trip id: 1
Begin date: 2022-06-01
End date: 2022-06-15
First name: John
Last name: MacNell
Region: Asia
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: China
Has visa in country: China
Visa number: 3070696915
```

```
employee trip id: 3
Trip id: 3
Begin date: 2022-07-23
End date: 2022-08-06
First name: John
Last name: MacNell
Region: Asia
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: China
Has visa in country: China
Visa number: 3070696915
```

```
employee trip id: 4
Trip id: 3
Begin date: 2022-07-23
End date: 2022-08-06
First name: D.B.
Last name: Marland
Region: Asia
Required inoculation type: Covid-19
Has inoculation type: Covid-19
Date expires: 2023-02-01
Required country visa: China
Has visa in country: China
Visa number: 9689705174
```

## **9.Trip Schedule Report**

### Purpose of Report

-Mei Wong needs a report so potential customers can check on trip schedules

### Report Description

This report displays the beginning and ending dates for each trip along with each excursion and its date that is a part of that trip. Each trip is listed for as many times as the amount of excursions on that trip. The trip\_id and region name are displayed for each trip. Each excursion has the event description and the date it takes place on. A “WHERE T.trip\_id = ?” clause could be run on the view to limit the results to one trip, which would make the result useful as a trip itinerary.

### **9.Trip Schedule Report**

```
SELECT T.trip_id, D.region,
       DATE_FORMAT(T.begin_date,'%m/%d/%Y') AS 'Begin Date',
       DATE_FORMAT(T.end_date,'%m/%d/%Y') AS 'End Date',
       DATE_FORMAT(TE.date,'%m/%d/%Y') AS 'Excursion Date',
       E.excursion_description
  FROM trip AS T
 JOIN destination AS D
   ON T.destination_id = D.destination_id
 JOIN trip_excursion AS TE
   ON TE.trip_id = T.trip_id
 JOIN excursion AS E
   ON E.excursion_id = TE.excursion_id
 ORDER BY T.begin_date, TE.date;
```

```
Press any key to continue...
-- DISPLAYING trip_schedules Report --
Trip id: 1
Region: Asia
Begin Date: 06/01/2022
End Date: 06/15/2022
Excursion Date: 06/10/2022
Excursion description: Rock Climbing

Trip id: 1
Region: Asia
Begin Date: 06/01/2022
End Date: 06/15/2022
Excursion Date: 06/11/2022
Excursion description: Camp Games

Trip id: 2
Region: North America
Begin Date: 07/12/2022
End Date: 07/18/2022
Excursion Date: 07/12/2022
Excursion description: Rock Climbing

Trip id: 2
Region: North America
Begin Date: 07/12/2022
End Date: 07/18/2022
Excursion Date: 07/13/2022
Excursion description: Camp Games
```

```
Trip id: 2
Region: North America
Begin Date: 07/12/2022
End Date: 07/18/2022
Excursion Date: 07/13/2022
Excursion description: Camp Games

Trip id: 2
Region: North America
Begin Date: 07/12/2022
End Date: 07/18/2022
Excursion Date: 07/14/2022
Excursion description: Tea Time

Trip id: 2
Region: North America
Begin Date: 07/12/2022
End Date: 07/18/2022
Excursion Date: 07/16/2022
Excursion description: Rock Climbing

Trip id: 2
Region: North America
Begin Date: 07/12/2022
End Date: 07/18/2022
Excursion Date: 07/17/2022
Excursion description: Camp Games
```

```
Trip id: 2
Region: North America
Begin Date: 07/12/2022
End Date: 07/18/2022
Excursion Date: 07/18/2022
Excursion description: The Big Event
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 07/25/2022
Excursion description: Rock Climbing
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 07/26/2022
Excursion description: Camp Games
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 07/27/2022
Excursion description: Outdoor Cooking Class
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 07/28/2022
Excursion description: Hiking
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 07/29/2022
Excursion description: Hiking
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 07/30/2022
Excursion description: Outdoor Cooking Class
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 07/31/2022
Excursion description: Rock Climbing
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 08/01/2022
Excursion description: Rock Climbing
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 08/02/2022
Excursion description: The Big Event
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 08/03/2022
Excursion description: The Big Event
```

```
Trip id: 3
Region: Asia
Begin Date: 07/23/2022
End Date: 08/06/2022
Excursion Date: 08/04/2022
Excursion description: The Big Event
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/15/2022
Excursion description: Camp Games
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/16/2022
Excursion description: Hiking
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/17/2022
Excursion description: Hiking
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/18/2022
Excursion description: Outdoor Cooking Class
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/19/2022
Excursion description: Rock Climbing
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/20/2022
Excursion description: Rock Climbing
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/21/2022
Excursion description: The Big Event
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/22/2022
Excursion description: The Big Event
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/24/2022
Excursion description: The Big Event
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/24/2022
Excursion description: Swimming
```

```
Trip id: 4
Region: Southern Europe
Begin Date: 08/13/2022
End Date: 08/27/2022
Excursion Date: 08/25/2022
Excursion description: Swimming
```

```
Trip id: 5
Region: Africa
Begin Date: 09/03/2022
End Date: 09/18/2022
Excursion Date: 09/05/2022
Excursion description: Rock Climbing
```

```
Trip id: 5
Region: Africa
Begin Date: 09/03/2022
End Date: 09/18/2022
Excursion Date: 09/06/2022
Excursion description: Rock Climbing
```

```
Trip id: 5
Region: Africa
Begin Date: 09/03/2022
End Date: 09/18/2022
Excursion Date: 09/07/2022
Excursion description: Camp Games
```

```
Trip id: 5
Region: Africa
Begin Date: 09/03/2022
End Date: 09/18/2022
Excursion Date: 09/08/2022
Excursion description: Camp Games
```

```
Trip id: 5
Region: Africa
Begin Date: 09/03/2022
End Date: 09/18/2022
Excursion Date: 09/09/2022
Excursion description: Camp Games
```

```
Region: Africa
Begin Date: 09/03/2022
End Date: 09/18/2022
Excursion Date: 09/10/2022
Excursion description: Fishing
```

```
Trip id: 5
Region: Africa
Begin Date: 09/03/2022
End Date: 09/18/2022
Excursion Date: 09/11/2022
Excursion description: Fishing
```

```
Trip id: 6
Region: Northern Europe
Begin Date: 10/20/2022
End Date: 10/30/2022
Excursion Date: 10/22/2022
Excursion description: Rock Climbing
```

```
Trip id: 6
Region: Northern Europe
Begin Date: 10/20/2022
End Date: 10/30/2022
Excursion Date: 10/23/2022
Excursion description: Rock Climbing
```

Trip id: 6  
Region: Northern Europe  
Begin Date: 10/20/2022  
End Date: 10/30/2022  
Excursion Date: 10/24/2022  
Excursion description: Rock Climbing

Trip id: 6  
Region: Northern Europe  
Begin Date: 10/20/2022  
End Date: 10/30/2022  
Excursion Date: 10/25/2022  
Excursion description: Camp Games

Trip id: 6  
Region: Northern Europe  
Begin Date: 10/20/2022  
End Date: 10/30/2022  
Excursion Date: 10/26/2022  
Excursion description: Camp Games

Trip id: 6  
Region: Northern Europe  
Begin Date: 10/20/2022  
End Date: 10/30/2022  
Excursion Date: 10/27/2022  
Excursion description: Camp Games

Trip id: 6

Trip id: 6  
Region: Northern Europe  
Begin Date: 10/20/2022  
End Date: 10/30/2022  
Excursion Date: 10/28/2022  
Excursion description: Diving

Trip id: 6  
Region: Northern Europe  
Begin Date: 10/20/2022  
End Date: 10/30/2022  
Excursion Date: 10/29/2022  
Excursion description: Diving

Trip id: 7  
Region: Northern Europe  
Begin Date: 11/01/2022  
End Date: 11/25/2022  
Excursion Date: 11/02/2022  
Excursion description: Swimming

Trip id: 7  
Region: Northern Europe  
Begin Date: 11/01/2022  
End Date: 11/25/2022  
Excursion Date: 11/04/2022  
Excursion description: Camp Games

```
Trip id: 7
Region: Northern Europe
Begin Date: 11/01/2022
End Date: 11/25/2022
Excursion Date: 11/07/2022
Excursion description: Deep Sea Fishing
```

```
Trip id: 7
Region: Northern Europe
Begin Date: 11/01/2022
End Date: 11/25/2022
Excursion Date: 11/12/2022
Excursion description: Tea Time
```

```
Trip id: 7
Region: Northern Europe
Begin Date: 11/01/2022
End Date: 11/25/2022
Excursion Date: 11/18/2022
Excursion description: Rock Climbing
```

```
Trip id: 7
Region: Northern Europe
Begin Date: 11/01/2022
End Date: 11/25/2022
Excursion Date: 11/20/2022
Excursion description: Outdoor Cooking Class
```

```
Trip id: 7
```

```
Trip id: 7
Region: Northern Europe
Begin Date: 11/01/2022
End Date: 11/25/2022
Excursion Date: 11/22/2022
Excursion description: The Big Event
```

```
Trip id: 7
Region: Northern Europe
Begin Date: 11/01/2022
End Date: 11/25/2022
Excursion Date: 11/23/2022
Excursion description: The Big Event
```

```
Trip id: 7
Region: Northern Europe
Begin Date: 11/01/2022
End Date: 11/25/2022
Excursion Date: 11/24/2022
Excursion description: The Big Event
```

```
Trip id: 8
Region: Africa
Begin Date: 12/07/2022
End Date: 12/14/2022
Excursion Date: 12/08/2022
Excursion description: Deep Sea Fishing
```

```
Trip id: 8
Region: Africa
Begin Date: 12/07/2022
End Date: 12/14/2022
Excursion Date: 12/10/2022
Excursion description: Scuba Diving
```

```
Trip id: 8
Region: Africa
Begin Date: 12/07/2022
End Date: 12/14/2022
Excursion Date: 12/12/2022
Excursion description: Lion Fighting
```

```
Trip id: 9
Region: North America
Begin Date: 01/05/2023
End Date: 01/10/2023
Excursion Date: 01/06/2023
Excursion description: CampFire Singing Lessons
```

```
Trip id: 9
Region: North America
Begin Date: 01/05/2023
End Date: 01/10/2023
Excursion Date: 01/07/2023
Excursion description: Karaoke
```

```
Trip id: 9
Region: North America
Begin Date: 01/05/2023
End Date: 01/10/2023
Excursion Date: 01/09/2023
Excursion description: Concert
```

```
Press any key to continue... █
```

## **10-A.Item By Age Report**

## **10-B.Item By Age Report**

### Purpose of Reports

These reports provide inventory details.

The interactive report is used to identify the equipment with an age greater than the age entered.

-Dimitrios needs reports for equipment inventory and maintenance.

### **10-A.Item By Age Report**

--all items

```
SELECT I.item_id, IT.description,
       DATEDIFF(CURDATE(), I.date_aquired) AS 'Age in Days',
       DATEDIFF(CURDATE(), I.date_aquired)/365.25 AS 'Age in Years',
       DATE_FORMAT(I.date_aquired,'%m/%d/%Y') AS 'Date Acquired'
  FROM item AS I
 JOIN item_type AS IT
   ON i.item_type_id = IT.item_type_id
 ORDER BY I.date_aquired;
```

```
-- DISPLAYING item_by_age Report --
Item id: 1
Description: Trekking poles
Age in Days: 1542
Age in Years: 4.2218
Date Acquired: 04/23/2018

Item id: 2
Description: Trekking poles
Age in Days: 1542
Age in Years: 4.2218
Date Acquired: 04/23/2018

Item id: 3
Description: Trekking poles
Age in Days: 1542
Age in Years: 4.2218
Date Acquired: 04/23/2018

Item id: 4
Description: Trekking poles
Age in Days: 1496
Age in Years: 4.0958
Date Acquired: 06/08/2018

Item id: 5
Description: Trekking poles
Age in Days: 1496
Age in Years: 4.0958
Date Acquired: 06/08/2018

Item id: 6
Description: Trekking poles
Age in Days: 1496
Age in Years: 4.0958
Date Acquired: 06/08/2018

Item id: 11
Description: First aid kit
Age in Days: 1207
Age in Years: 3.3046
Date Acquired: 03/24/2019

Item id: 12
Description: First aid kit
Age in Days: 1207
Age in Years: 3.3046
Date Acquired: 03/24/2019

Item id: 13
Description: First aid kit
Age in Days: 829
Age in Years: 2.2697
Date Acquired: 04/05/2020
```

Item id: 14  
Description: First aid kit  
Age in Days: 829  
Age in Years: 2.2697  
Date Acquired: 04/05/2020

Item id: 29  
Description: Tent  
Age in Days: 676  
Age in Years: 1.8508  
Date Acquired: 09/05/2020

Item id: 28  
Description: Tent  
Age in Days: 676  
Age in Years: 1.8508  
Date Acquired: 09/05/2020

Item id: 27  
Description: Tent  
Age in Days: 676  
Age in Years: 1.8508  
Date Acquired: 09/05/2020

Item id: 26  
Description: Tent  
Age in Days: 676  
Age in Years: 1.8508  
Date Acquired: 09/05/2020

Item id: 63  
Description: Bug Spray  
Age in Days: 599  
Age in Years: 1.6400  
Date Acquired: 11/21/2020

Item id: 65  
Description: Bug Spray  
Age in Days: 599  
Age in Years: 1.6400  
Date Acquired: 11/21/2020

Item id: 64  
Description: Bug Spray  
Age in Days: 599  
Age in Years: 1.6400  
Date Acquired: 11/21/2020

Item id: 62  
Description: Bug Spray  
Age in Days: 599  
Age in Years: 1.6400  
Date Acquired: 11/21/2020

```
Item id: 61
Description: Bug Spray
Age in Days: 599
Age in Years: 1.6400
Date Acquired: 11/21/2020

Item id: 22
Description: Water bottle
Age in Days: 599
Age in Years: 1.6400
Date Acquired: 11/21/2020

Item id: 23
Description: Water bottle
Age in Days: 599
Age in Years: 1.6400
Date Acquired: 11/21/2020

Item id: 24
Description: Water bottle
Age in Days: 599
Age in Years: 1.6400
Date Acquired: 11/21/2020

Item id: 25
Description: Water bottle
Age in Days: 599
Age in Years: 1.6400
Date Acquired: 11/21/2020

Item id: 60
Description: Bug Spray
Age in Days: 599
Age in Years: 1.6400
Date Acquired: 11/21/2020

Item id: 41
Description: Fishing Tools
Age in Days: 555
Age in Years: 1.5195
Date Acquired: 01/04/2021

Item id: 40
Description: Fishing Tools
Age in Days: 555
Age in Years: 1.5195
Date Acquired: 01/04/2021

Item id: 39
Description: Fishing Tools
Age in Days: 555
Age in Years: 1.5195
Date Acquired: 01/04/2021
```

Item id: 38  
Description: Fishing Tools  
Age in Days: 555  
Age in Years: 1.5195  
Date Acquired: 01/04/2021

Item id: 37  
Description: Fishing Tools  
Age in Days: 555  
Age in Years: 1.5195  
Date Acquired: 01/04/2021

Item id: 36  
Description: Fishing Tools  
Age in Days: 555  
Age in Years: 1.5195  
Date Acquired: 01/04/2021

Item id: 66  
Description: Food  
Age in Days: 549  
Age in Years: 1.5031  
Date Acquired: 01/10/2021

Item id: 67  
Description: Food  
Age in Days: 549  
Age in Years: 1.5031  
Date Acquired: 01/10/2021

Item id: 68  
Description: Food  
Age in Days: 549  
Age in Years: 1.5031  
Date Acquired: 01/10/2021

Item id: 69  
Description: Food  
Age in Days: 549  
Age in Years: 1.5031  
Date Acquired: 01/10/2021

Item id: 70  
Description: Food  
Age in Days: 549  
Age in Years: 1.5031  
Date Acquired: 01/10/2021

Item id: 71  
Description: Food  
Age in Days: 549  
Age in Years: 1.5031  
Date Acquired: 01/10/2021

Item id: 45  
Description: Scuba Gear  
Age in Days: 544  
Age in Years: 1.4894  
Date Acquired: 01/15/2021

Item id: 42  
Description: Scuba Gear  
Age in Days: 544  
Age in Years: 1.4894  
Date Acquired: 01/15/2021

Item id: 43  
Description: Scuba Gear  
Age in Days: 544  
Age in Years: 1.4894  
Date Acquired: 01/15/2021

Item id: 44  
Description: Scuba Gear  
Age in Days: 544  
Age in Years: 1.4894  
Date Acquired: 01/15/2021

Item id: 46  
Description: Scuba Gear  
Age in Days: 544  
Age in Years: 1.4894  
Date Acquired: 01/15/2021

Item id: 47  
Description: Scuba Gear  
Age in Days: 544  
Age in Years: 1.4894  
Date Acquired: 01/15/2021

Item id: 48  
Description: Small Knife  
Age in Days: 539  
Age in Years: 1.4757  
Date Acquired: 01/20/2021

Item id: 49  
Description: Small Knife  
Age in Days: 539  
Age in Years: 1.4757  
Date Acquired: 01/20/2021

Item id: 50  
Description: Small Knife  
Age in Days: 539  
Age in Years: 1.4757  
Date Acquired: 01/20/2021

Item id: 51  
Description: Small Knife  
Age in Days: 539  
Age in Years: 1.4757  
Date Acquired: 01/20/2021

Item id: 52  
Description: Small Knife  
Age in Days: 539  
Age in Years: 1.4757  
Date Acquired: 01/20/2021

Item id: 53  
Description: Small Knife  
Age in Days: 539  
Age in Years: 1.4757  
Date Acquired: 01/20/2021

Item id: 57  
Description: Shovel  
Age in Days: 526  
Age in Years: 1.4401  
Date Acquired: 02/02/2021

Item id: 59  
Description: Shovel  
Age in Days: 526  
Age in Years: 1.4401  
Date Acquired: 02/02/2021

Item id: 58  
Description: Shovel  
Age in Days: 526  
Age in Years: 1.4401  
Date Acquired: 02/02/2021

Item id: 56  
Description: Shovel  
Age in Days: 526  
Age in Years: 1.4401  
Date Acquired: 02/02/2021

Item id: 55  
Description: Shovel  
Age in Days: 526  
Age in Years: 1.4401  
Date Acquired: 02/02/2021

Item id: 54  
Description: Shovel  
Age in Days: 526  
Age in Years: 1.4401  
Date Acquired: 02/02/2021

Item id: 35  
Description: Lighter  
Age in Days: 515  
Age in Years: 1.4100  
Date Acquired: 02/13/2021

Item id: 34  
Description: Lighter  
Age in Days: 515  
Age in Years: 1.4100  
Date Acquired: 02/13/2021

Item id: 32  
Description: Lighter  
Age in Days: 515  
Age in Years: 1.4100  
Date Acquired: 02/13/2021

Item id: 33  
Description: Lighter  
Age in Days: 515  
Age in Years: 1.4100  
Date Acquired: 02/13/2021

Item id: 31  
Description: Tent  
Age in Days: 451  
Age in Years: 1.2348  
Date Acquired: 04/18/2021

Item id: 30  
Description: Tent  
Age in Days: 451  
Age in Years: 1.2348  
Date Acquired: 04/18/2021

Item id: 17  
Description: Rain coat  
Age in Days: 438  
Age in Years: 1.1992  
Date Acquired: 05/01/2021

Item id: 16  
Description: Rain coat  
Age in Days: 438  
Age in Years: 1.1992  
Date Acquired: 05/01/2021

Item id: 15  
Description: Rain coat  
Age in Days: 438  
Age in Years: 1.1992  
Date Acquired: 05/01/2021

Item id: 77  
Description: Hula hoop  
Age in Days: 270  
Age in Years: 0.7392  
Date Acquired: 10/16/2021

Item id: 76  
Description: Hula hoop  
Age in Days: 270  
Age in Years: 0.7392  
Date Acquired: 10/16/2021

Item id: 72  
Description: Hula hoop  
Age in Days: 270  
Age in Years: 0.7392  
Date Acquired: 10/16/2021

Item id: 73  
Description: Hula hoop  
Age in Days: 270  
Age in Years: 0.7392  
Date Acquired: 10/16/2021

Item id: 74  
Description: Hula hoop  
Age in Days: 270  
Age in Years: 0.7392  
Date Acquired: 10/16/2021

Item id: 75  
Description: Hula hoop  
Age in Days: 270  
Age in Years: 0.7392  
Date Acquired: 10/16/2021

Item id: 83  
Description: Mystery Box  
Age in Days: 191  
Age in Years: 0.5229  
Date Acquired: 01/03/2022

Item id: 82  
Description: Mystery Box  
Age in Days: 191  
Age in Years: 0.5229  
Date Acquired: 01/03/2022

Item id: 81  
Description: Mystery Box  
Age in Days: 191  
Age in Years: 0.5229  
Date Acquired: 01/03/2022

Item id: 80  
Description: Mystery Box  
Age in Days: 191  
Age in Years: 0.5229  
Date Acquired: 01/03/2022

Item id: 79  
Description: Mystery Box  
Age in Days: 191  
Age in Years: 0.5229  
Date Acquired: 01/03/2022

Item id: 78  
Description: Mystery Box  
Age in Days: 191  
Age in Years: 0.5229  
Date Acquired: 01/03/2022

Item id: 89  
Description: Diving Tools  
Age in Days: 162  
Age in Years: 0.4435  
Date Acquired: 02/01/2022

Item id: 84  
Description: Diving Tools  
Age in Days: 162  
Age in Years: 0.4435  
Date Acquired: 02/01/2022

Item id: 85  
Description: Diving Tools  
Age in Days: 162  
Age in Years: 0.4435  
Date Acquired: 02/01/2022

Item id: 86  
Description: Diving Tools  
Age in Days: 162  
Age in Years: 0.4435  
Date Acquired: 02/01/2022

Item id: 87  
Description: Diving Tools  
Age in Days: 162  
Age in Years: 0.4435  
Date Acquired: 02/01/2022

Item id: 88  
Description: Diving Tools  
Age in Days: 162  
Age in Years: 0.4435  
Date Acquired: 02/01/2022

Item id: 19  
Description: Flashlight  
Age in Days: 152  
Age in Years: 0.4162  
Date Acquired: 02/11/2022

Item id: 20  
Description: Flashlight  
Age in Days: 152  
Age in Years: 0.4162  
Date Acquired: 02/11/2022

Item id: 21  
Description: Flashlight  
Age in Days: 152  
Age in Years: 0.4162  
Date Acquired: 02/11/2022

```

Item id: 18
Description: Flashlight
Age in Days: 152
Age in Years: 0.4162
Date Acquired: 02/11/2022

Item id: 8
Description: Sunscreen
Age in Days: 141
Age in Years: 0.3860
Date Acquired: 02/22/2022

Item id: 9
Description: Sunscreen
Age in Days: 141
Age in Years: 0.3860
Date Acquired: 02/22/2022

Item id: 10
Description: Sunscreen
Age in Days: 141
Age in Years: 0.3860
Date Acquired: 02/22/2022

Item id: 7
Description: Sunscreen
Age in Days: 141
Age in Years: 0.3860
Date Acquired: 02/22/2022

```

### Report Description

This report can either be a fixed view or a procedure. These reports build on the last one by limiting the returned records to only the items with an age greater than or equal to the specified age. The age value can be hard coded into a select statement or view, or the procedure can be called with an int value to be used as the age in the command. Dimitrios needed a report to view items that were greater than 5 years old. While you could hard code 5 as the age or input 5 into the procedure and it would return the correct records, our data assumed most items were purchased new in recent years and no items are over 5 years old. If you run either report with a lower value such as an age of 3 or 4, it will return matching records.

### **10-B.Item By Age Report Interactive**

```
--items over X years old
SELECT I.item_id, IT.description,
       DATEDIFF(CURDATE(), I.date_aquired) AS 'Age in Days',
       DATEDIFF(CURDATE(), I.date_aquired)/365.25 AS 'Age in Years',
       DATE_FORMAT(I.date_aquired,'%m/%d/%Y') AS 'Date Acquired'
FROM item AS I
JOIN item_type AS IT
ON i.item_type_id = IT.item_type_id
```

```
WHERE (DATEDIFF(CURDATE(), I.date_aquired)/365.25) >= 4
ORDER BY I.date_aquired;

--create procedure
CREATE PROCEDURE OldItems (IN age int)
BEGIN
    SELECT I.item_id, IT.description,
        DATEDIFF(CURDATE(), I.date_aquired) AS 'Age in Days',
        DATEDIFF(CURDATE(), I.date_aquired)/365.25 AS 'Age in Years',
        DATE_FORMAT(I.date_aquired,'%m/%d/%Y') AS 'Date Acquired'
    FROM item AS I
    JOIN item_type AS IT
        ON i.item_type_id = IT.item_type_id
    WHERE (DATEDIFF(CURDATE(), I.date_aquired)/365.25) >= age
    ORDER BY I.date_aquired;
END

CALL OldItems(4)
```

```
Press any key to continue...
Finding items older than X years old: █
```

```
Finding items older than X years old: 4
-- DISPLAYING ITEMS OVER 4 YEAR(S) OLD --
Item ID:          1
Description:      Trekking poles
Age In Days:     1542
Age In Years:    4.2218
Date Acquired:   04/23/2018

Item ID:          2
Description:      Trekking poles
Age In Days:     1542
Age In Years:    4.2218
Date Acquired:   04/23/2018

Item ID:          3
Description:      Trekking poles
Age In Days:     1542
Age In Years:    4.2218
Date Acquired:   04/23/2018

Item ID:          4
Description:      Trekking poles
Age In Days:     1496
Age In Years:    4.0958
Date Acquired:   06/08/2018

Item ID:          5
Description:      Trekking poles
Age In Days:     1496
Age In Years:    4.0958
Date Acquired:   06/08/2018
```

```
Item ID:          6
Description:      Trekking poles
Age In Days:     1496
Age In Years:    4.0958
Date Acquired:   06/08/2018
```

```
Press any key to continue...■
```

**END**