**GitHub Link:** https://github.com/michaelzwartz/Database-Systems.git

**Part 2: Data Entities, Attributes, and Files**

1. Five entities Timmz Atlantic maintains records for include: Employee data, Third party manufacturers, products, sales, and shipping information:

* Employee data contains the employee ID numbers, first and last names, location, and salary. Our employees work all over the world. The location will be the city in which there is an office for Timmz Atlantic or remote for our remote workers. The ID number starts with the last two digits of the year they were hired and random numbers after that.
* All of our products are made by third part manufacturers. We choose our partners based on quality, reliability and price. This table records the manufacturer’s name, location (country), max production capacity per day, a cost rating, and a reliability rating.
* The products are tracked by their name, manufacturer, and cost per unit.
* Sales are tracked using an increasing order number, the store name its being sold to, the product name, and quantity sold.
* The shipping information includes the order number, destination city, shipping company, and unique tracking number.

1. Create 5 tables (1 for each entity)

|  |  |
| --- | --- |
| **Employee Data** | |
| Employee\_ID | varchar[10] |
| First name | varchar[15] |
| Last name | varchar[20] |
| Location | String |
| Salary | Float |

|  |  |
| --- | --- |
| **Third Party Manufacturers** | |
| Name | varchar[20] |
| Location | varchar[10] |
| Capacity per day | Float |
| Cost rating (1-5) | Int |
| Reliability (1-5) | int |

|  |  |
| --- | --- |
| **Product** | |
| Product | varchar[20] |
| Manufacturer | varchar[10] |
| Cost per unit | Float |

|  |  |
| --- | --- |
| **Sales** | |
| order\_num | int |
| Store\_id | varchar[10] |
| product | varchar[10] |
| quantity | int |

|  |  |
| --- | --- |
| **Shipping Information** | |
| Order\_num | varchar[20] |
| Destination City | varchar[10] |
| Carrier | varchar[10] |
| Tracking number | Varchar[20] |