

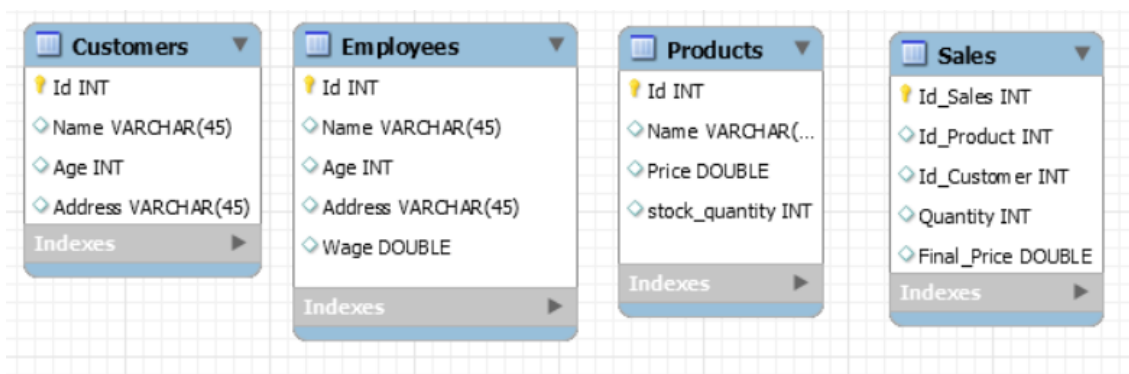
Task Position 2 – Python or C++

Write an algorithm in Python or C++ responsible for the register of a company's products, employees, customers and sales. The user of the algorithm wants to be able to register and open the registers for each category. You can use a simplified User Interface:

```
C:\>python task2.py
Type 1 to create new product
Type 2 to show registered products
Type 3 to create new employee
Type 4 to show registered employees
Type 5 to create new customer
Type 6 to show registered customers
Type 7 to create new sale
Type 8 to show registered sales
```

Task 2 – Example of User Interface

The information you need to save for each category is shown in the figure below:



- For simplicity, you can save these data in .dat files;
- When a sale is performed, the product stock quantity must be reduced;
- If the customer is an employee, a discount of 10% is applied to the sale final price;
- Feel free to save more information if you think it is needed.

Things that **will be** evaluated:

1. Object Oriented Programming (3/10)
2. File I/O Handling (2/10)
3. Design choices (2/10)
4. Input validation (1.5/10)
5. Documentation: if you create some interface or base class, it is expected to have some documentation, preferable in english (1/10)
6. Include a README explaining how new discounts should be implemented (0.5/10)

Things that **will not be** evaluated:

1. Do not spend much time in the app command line presentation (fancy command line menus or things alike), feel free to keep it simple