**Question**

Customers place orders from Siemens, and we collected some data about these orders (see 1-Order Data.xlsx). Occasionally, special discounts are offered for a selected range of products, and each discount has its valid period (see 2-Special Offer Data.xlsx). Now we need to know which rows in the order data are associated with a valid special offer. Please add a column named “Flag” and set “Flag” to 1 if it is associated with a valid special offer and to 0 if not.)

Please solve this problem in **two** ways:

1. To use Python to solve the problem.
2. To use SQL queries to solve the problem (hint: you could use Python package “pandasql” to run SQL queries in Python to get the results).

Note that column “Product\_No\_Start\_With” in special offer data is the first 5/6/7 digits of normal product numbers.

**Data**

1-Order Data.xlsx



2-Special Offer Data.xlsx: a list of products that have special offers with their valid dates.



**Example**

