

## Assignment 01

Define five DataFrames called `df_customers`, `df_invoices`, `df_invoice_details`, `df_products` and `df_staffs`.

Display the following:

1. Display the customer who purchased the invoice ID number [id].
2. Display the names of the products purchased by the customer whose phone number is [phone].
3. Display all invoices purchased by the customer named [name].
4. Display all invoices issued by a staff named [name].
5. Display all names, selling prices and quantities of the products in the invoice ID number [id].
6. Display all customers who purchased [product\_name].
7. Display the number of female staffs who are still working for the company.
8. Display the total quantity of [product\_name] that have been sold to the customers who live in [address].
9. Display all customers.
10. Display all products.

### - Customer

CusID	CusName	Gender	Phone	Address
1	Keo Tola	M	011 694 836	Phnom Penh
2	Chan Sokheng	F	097 984 4985	Pursat
3	Meng Heang	M	099 897 858	Phnom Penh
4	Sok Sophea	F	086 985 585	Siem Reap
5	Sen Sinet	F	097 242 234	Phnom Penh
6	Sok Panha	M	086 654 432	Siem Reap

### - Invoice

InvoiceID	InvoiceDate	TotalAmount	CusID	StaffID
1	2021-01-04	22	1	1
2	2021-05-15	14	4	1
3	2021-05-15	8	3	2
4	2021-07-22	15	2	3
5	2020-01-17	45	1	3
6	2020-03-27	24	1	3
7	2020-02-11	5	3	4
8	2020-07-22	59	3	5

- InvoiceDetail

InvoiceID	ProductID	SellingPrice	Quantity
1	1	5	3
1	2	7	1
2	1	7	2
3	3	8	1
4	2	7	1
4	3	8	1
5	1	5	2
5	2	7	5
6	3	8	5
7	1	5	1
8	2	7	5
8	3	8	4

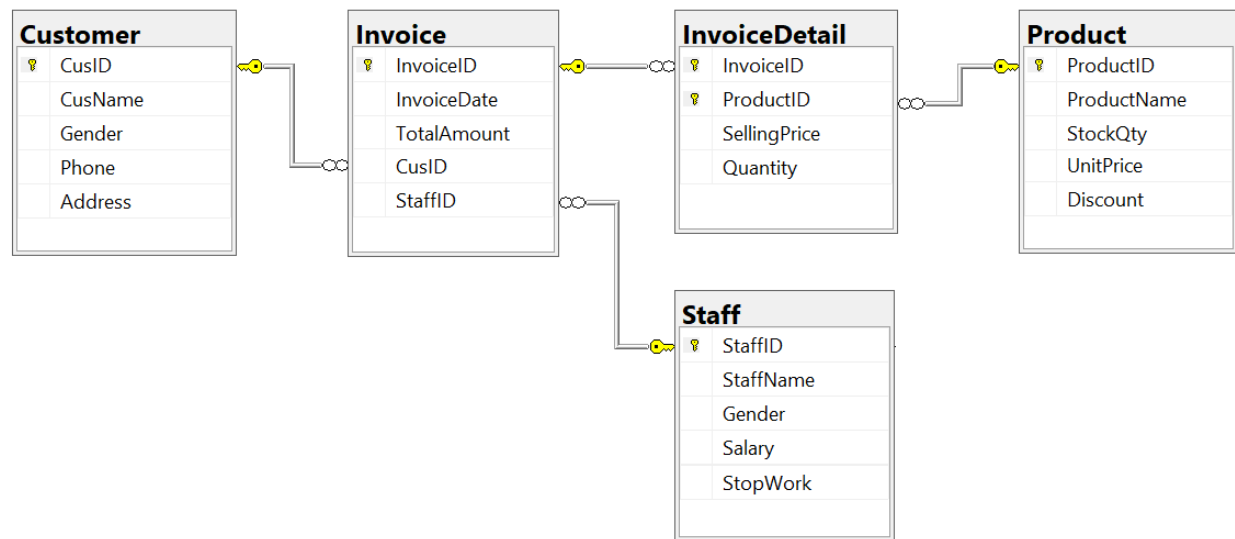
- Product

ProductID	ProductName	StockQty	UnitPrice	Discount
1	Cable	50	10	0.5
2	Mouse	30	7	0
3	USB Headset	35	10	0.2
4	Adapter	20	7	0.5
5	Keyboard	15	15	0.6

- Staff

StaffID	StaffName	Gender	Salary	StopWork
1	Kim Tola	M	1500	False
2	Long Dary	F	700	False
3	Kun Sopheak	F	320	False
4	Chim Thida	F	200	True
5	Dim Vuthy	M	150	True
6	Keo Dara	M	100	False

## Entity-relationship Diagram (ERD)



**Deadline:** 27.06.23, 11:59PM. Please turn in your solution (.ipynb file) via MS Teams.