

Project 1

1 . What is the total sales after each month?

Sales for each mont...s (ASUS\sarav (65))*

```
select mon, round(sum(money),2) as sales
from dbo.[index]
group by mon
order by sum(money) desc
```

133 %

Results Messages

	mon	sales
1	May	9063.42
2	June	7758.76
3	March	7050.2
4	April	6720.56
5	July	2473.7

2. What is the sales by cash type for each month?

```
select MON, cash_type,
round(sum(money),2)as sales
from dbo.[index]
group by mon, cash_type
order by mon
```

133 %

Results Messages

	MON	cash_type	sales
1	April	card	5719.56
2	April	cash	1001
3	July	card	2473.7
4	June	card	7617.76
5	June	cash	141
6	March	card	5905.2
7	March	cash	1145
8	May	card	8164.42
9	May	cash	899

(From the result, we can most of the customers pay by card)

3. What is the sale for each coffee ?

```
select coffee_name,  
        ROUND(sum(money),2) as sales  
from dbo.[index]  
group by coffee_name  
order by sales desc
```

133 %

Results Messages

	coffee_name	sales
1	Latte	7696.34
2	Americano with Milk	7457.22
3	Cappuccino	6709.56
4	Americano	4092.06
5	Hot Chocolate	2680.02
6	Cortado	2445.82
7	Cocoa	1066.2
8	Espresso	919.42

4. What is count of each coffee sold in a month?

```
select mon,  
        coffee_name,  
        COUNT( coffee_name) as count  
from dbo.[index]  
where mon = 'march' --by searching this we can  
group by mon, coffee_name --select a month we want
```

133 %

Results Messages

	mon	coffee_name	count
1	March	Americano	36
2	March	Americano with Milk	34
3	March	Cappuccino	20
4	March	Cocoa	6
5	March	Cortado	30
6	March	Espresso	10
7	March	Hot Chocolate	22
8	March	Latte	48

Python (Using- Pandas, NumPy, DataFrame)

1 . What is the total sales after each month?

1. what is the total sales for each month

```
total_money_per_month= df.groupby('month')['money'].sum().reset_index()
total_money = total_money_per_month.sort_values(by= 'money', ascending = False)
```

total_money

	month	money
4	May	9063.42
2	June	7758.76
3	March	7050.20
0	April	6720.56
1	July	2473.70

(In May month, the sale is high)

2. Sales for each month by cash type

```
sales_by_month = df.groupby(['month', 'cash_type'])['money'].sum().reset_index()
sales_by_month = sales_by_month.sort_values(by=['month', 'cash_type'])
```

sales_by_month

	month	cash_type	money
0	April	card	5719.56
1	April	cash	1001.00
2	July	card	2473.70
3	June	card	7617.76
4	June	cash	141.00
5	March	card	5905.20
6	March	cash	1145.00
7	May	card	8164.42
8	May	cash	899.00

3. Each coffee total sales

```
coffee_sales = df.groupby('coffee_name')['money'].sum().reset_index()
coffee_sales = coffee_sales.sort_values(by = 'money', ascending = False)

coffee_sales
```

	coffee_name	money
7	Latte	7696.34
1	Americano with Milk	7457.22
2	Cappuccino	6709.56
0	Americano	4092.06
6	Hot Chocolate	2680.02
4	Cortado	2445.82
3	Cocoa	1066.20
5	Espresso	919.42

4. How many coffee sold in each month

```
coffee_count = df.groupby('month')['coffee_name'].count().reset_index()
coffee_count = coffee_count.sort_values(by = 'coffee_name', ascending = False)
coffee_count
```

	month	coffee_name
4	May	267
2	June	227
3	March	206
0	April	196
1	July	80