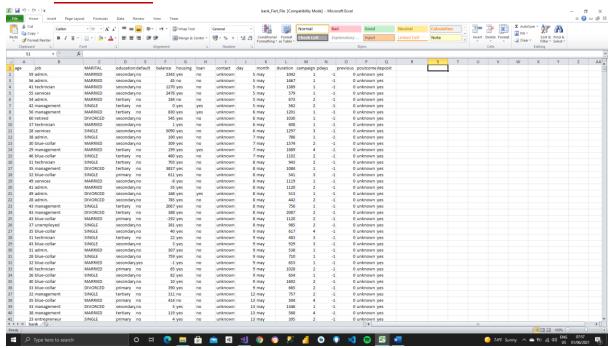
Project documentation

➤ <u>Dataset:</u>

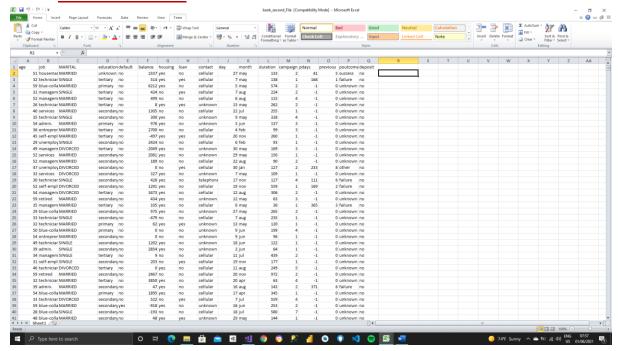
- ❖It describes data of customers in bank in many categories as age, marital, education and soon.
- ❖ And use this to analysis it for make decision for achieve profit for a bank by making relation between columns.
- ❖It's contained 12000 rows
- ❖It's contained 17 Columns
 - I. Age
 - II. Job
 - III. Loan
- IV. Marital
 - V. Education
- VI. Default
- VII. Balance
- VIII. Housing
 - IX. Contact
 - X. Day
 - XI. Month
- XII. Duration
- XIII. Campaign
- XIV. Pdays
- XV. Previous
- XVI. Pout come
- XVII. Deposit

Before Modification:

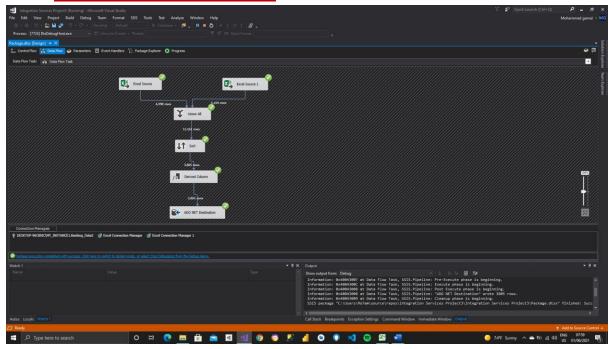
• First file:



• Second file:



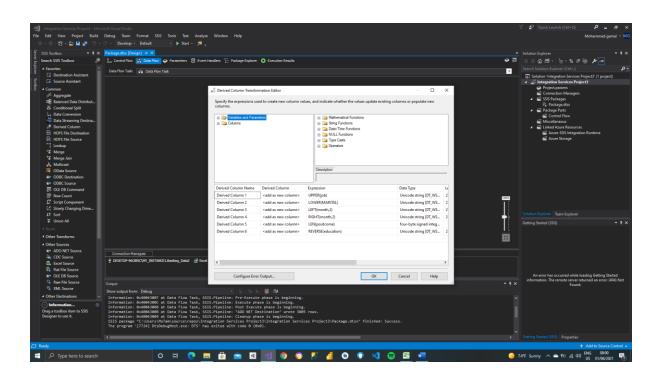
• Functions executied:



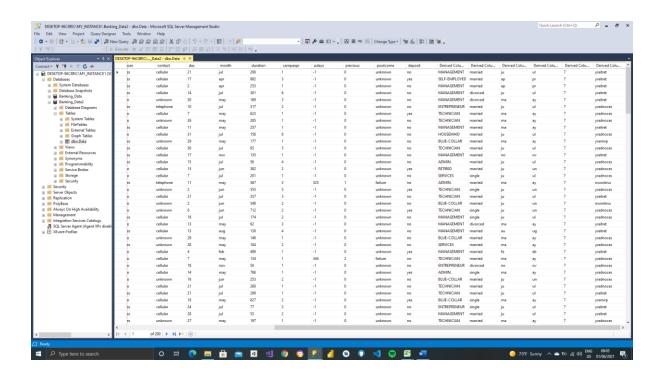
> Transformation:

- First derived column in job column to change into upper word.
- second derived column in marital column to change into lower word.
- third derived column to take first two letter in month column by left function.
- Fourth derived column to take last two letter in month column by right function.

- Fifth derived column to count number of letters in contact column and put its size by Len function.
- **♣**Sixth derived column to reverse word in education column by using reverse function.
- Sort by balance column and remove Duplication of all rows.

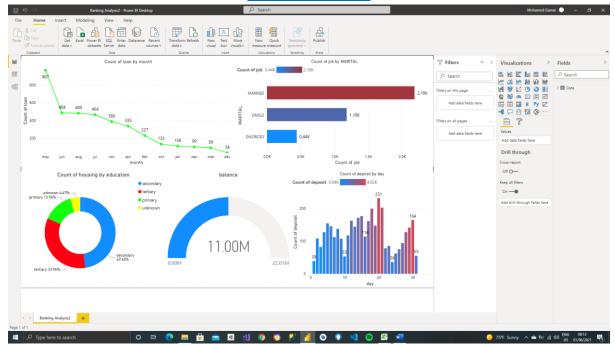


• After modification:



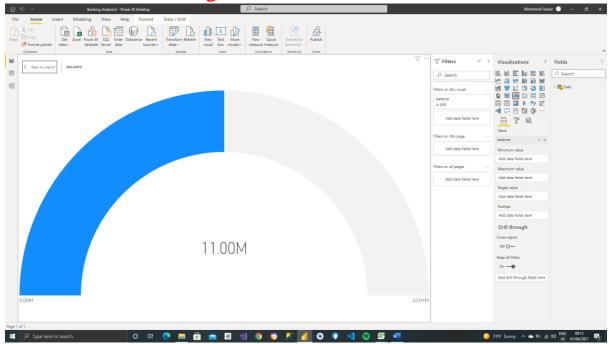
➤ Analysis and charts:

Dashboard:



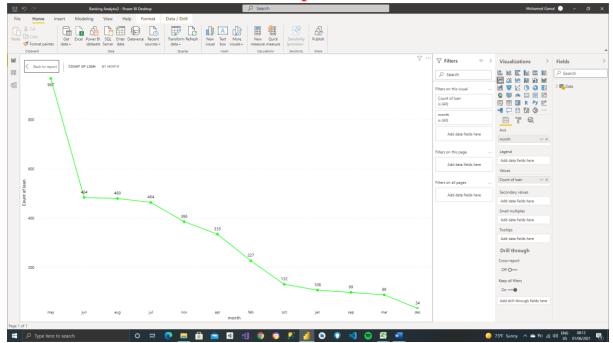
✓ Balances of Clients:

• Describes average balances in their accounts of clients.



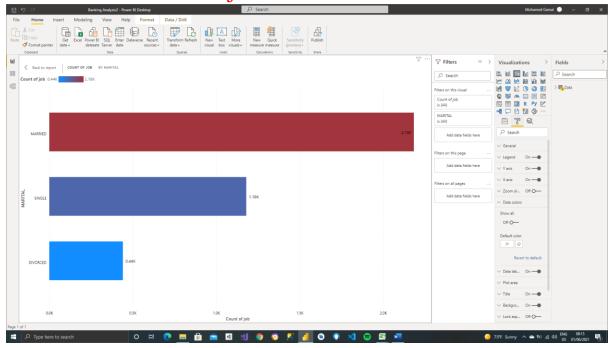
✓ Loan of Clients by month:

• it describes average loans that clients borrow per month to know if bank is achieved profit or not.



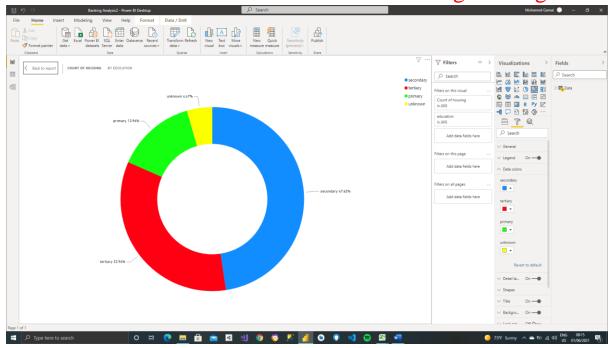
✓ Marital with Job:

- It describes ratio between marital status and job for
- it noticed most of jobs married from relation



✓ Housing by education:

• this relation between education and having housing



✓ Count of deposite by day:

• Its ratio between average deposits that is putted in a bank per day.

