Assignment Part 1

Instruction:
1. You have **30 minutes** to solve the task
2. There are **6 questions**
3. You need to provide the answers in clear form (for example in text file).
4. You can use any tool you want to solve the task (data are small enough to use Excel).
5. The Excel file with formulas or source code needs to be provided and possible to check
6. It needs to be possible to review how you got every answer
7. Assume that you are doing the report on the 1st of February (as data are prepared for that date).
8. Remember, your goal is to provide accurate answers.

Questions:

1. What was the average deposit in Spain in 2021?
2. Show Top 10 depositor and their deposits.
3. How many active players there are?
4. How many players currently have self-ban active?
5. How many self-bans were activated in 2021?
6. How many players had active self-ban on 1st of May 2021?

Good luck!

Description of datasets
Players:

- **AccountId** – the account number of the player
- **PlayerNr** – player number, player can have only one account number assigned to him
- **Country** – country of the player
- **DateOfBirth** – date of birth of the player
- **Source** – the source, from where the player came (for example Facebook, direct)
- **Selfban_start** – the date when the active self-ban of the player started
- **Selfban_end** – the date when the active self-ban of the player will end
- **First_genre** – the first genre which player played
- **Registration_date** – the date when player registered
- **Currency** – currency of the player

Selfbans:

- **AccountId** – the account number of the player
- **Selfban_start** – the date when the historical self-ban of the player started
- **Selfban_end** – the date when historical self-ban of the player ended

Transactions:

- **PlayerNr** – player number
- **Trx_Type** – the type of transactions, possible types are bonus, deposit, withdrawal, stake, win
- **Trx_time** – the date and time of transaction
- **Balance_before** – the balance of player account before the transaction
- **Balance_after** – the balance of player account after the transaction

Dictionary
APD – Active Player Days, number of days when players made a stake transaction
Active player – players who made deposit or stake transaction in last 3 month are consider active
GGR - Gross gaming revenue, it is the difference between the amount of money players staked minus the amount that they win
New players – Players who registered and made a stake transaction in last month