As a next step, we are expecting you to complete a short assignment.		
Kindly do not use any unfair means for completing the assignment. Plagiarism check is done before sending the assignment for review. Solution to be submitted in the following format:		
Instructions 1. Report 2. Jupyter Notebook/ SQL File/ Python file		
ABC is a real-money online gaming company providing multiplayer games such as Ludo. An user can register as a player,		
deposit money in the platform and play games with other players on the platform.		
If he/she wins the game then they can withdraw the winning amount while the platform charges a nominal fee for the services.		
To retain players on the platform, the company ABC gives loyalty points to their players based on their activity on the platform.		
Loyalty points are calculated on the basis of the number of games played, deposits and withdrawal made on the platform by a particular		
The criteria to convert number of games played, deposits and withdrawal into points is given as below:		
Weightage per		
Type of Action activity Formulae eg.		
Deposit of money on the		
Withdrawal of money 0.005 * Withdrawal 0.005 * (500 Rs Withdrawal) = 2.5		
0.001 * max((5-3, 0))		
= 0.001 * 2 = 0.002 points		
How many more times 0.001 * maximum of		
did a player do deposit		
Number of games 0.2 *Number of Games 0.2 * (50 Total Games Played) = 10 Played 0.2 * (50 Total Games Played) = 10 Points		
played 0.2 Hayed Foliate		
Final Loyalty Point Formula		
Loyalty Point = (0.01 * deposit) + (0.005 * Withdrawal amount) + (0.001 * (maximum of (#deposit - #withdrawal) or 0)) + (0.2 * Number of games played)		
At the end of each month total loyalty points are alloted to all the players. Out of which the top 50 players are provided cash benefits.		
Part A - Calculating loyalty points		
On each day, there are 2 slots for each of which the loyalty points are to be calculated:		
\$1 from 12am to 12pm \$2 from 12pm to 12am		
Based on the above information and the data provided answer the following questions:		
1. Find Playerwise Loyalty points earned by Players in the following slots:-		
a. 2nd October Slot S1 b. 16th October Slot S2		
b. 18th October Slot S1		
b. 26th October Slot 52 2. Calculate overall loyalty points earned and rank players on the basis of loyalty points in the month of October.		
2. Lactuate everal in uping points earlies in un training principal points affecting the prin		
3. What is the average deposit amount?		
4. What is the average deposit amount per user in a month? 5. What is the average number of games played per user?		
Part B - How much bonus should be allocated to leaderboard players?		
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After calculating the loyalty points for the whole month find out which 50 players are at the top of the leaderboard. The company has a	of Rs 50000 to be given away as bonus money to the loyal players.	
Now the company needs to determine how much bonus money should be given to the players.		
Should they base it on the amount of loyalty points? Should it be based on number of games? Or something else?		
That's for you to figure out.		
Suggest a suitable way to divide the allocated money keeping in mind the following points: 1. Only top 50 maked players are awarded bonus: 1. Only top 50 maked players are awarded bonus:		
Part C		
Would you can the facility point formula in facility point formula is fair or unfaid.		
Would you say the loyalty point formula is fair or unfair?		
Can you suggest any way to make the loyalty point formula more robust?		