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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Steps by setps** | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Read the data from Task #2. | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Extract the date, repeated\_hour\_flag, dam, and rtm values. | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| For each unique date: a. Calculate the top 2 and bottom 2 dam prices for each hour. b. Calculate TB2 revenue for that date using the formula: TB2 = (Top first priced hour + Top second priced hour) - (Bottom first priced hour + Bottom second priced hour). | | | | | | | | | | | | | | | | | | | | | | | |
| Sum the TB2 revenue for each unique date. | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Create a new DataFrame with columns: date and tb2\_revenue. | | | | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Save the output to 'task\_5.csv'. | | |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |