

Homework 1:

- Derive the general formulation of the Google Ads example (slides 14-18, topic 1).
- Implement it in Pyomo and solve it for the following data. Upload the Jupyter Notebook.

Average revenue per user (€) (PCR*CTR):

Advertiser	Query 1:	Query 2:	Query 3:	Query 4:
Company A	1	0.75	5	2
Company B	0.5	0.5	2	3
Company C	0.5	3	1	0.5
Company D	2	1	3	1

Advertiser	Budget (€)	Query	Estimated # requests
Company A	200	Q1	150
Company B	150	Q2	90
Company C	180	Q3	80
Company D	250	Q4	120

