Tables

2023-03-07

Table 1: Sample Portfolio Data

product_code	budget	expected_revenue
6000094-0002	240.0	112.800
6000100-0003	70350.0	78289.500
6000301-0004	15300.0	7191.000
6000307-0005	2700.0	2079.000
6000348-0007	50460.0	55036.200
6000378-0010	1425.0	1097.250
6000514-0014	28774200.0	15355284.000
6000134-0026	3072.0	1443.840
6000149-0029	2052.0	964.440
6000245-0036	5670.0	1449.900
6000014-0038	65016.0	41897.520
6000027-0040	5625.0	4331.250
6000030-0041	21168.0	22548.960
6000042-0044	6747.3	1725.381
6000062-0048	6349.5	2424.015

Table 2: Budget Fullfilment: What percentage of the budget is spent on the solution?

#portfolio	exact_budget	existing_budget	spiral_budget
1	100.00	93.96	99.98
2	99.99	92.19	99.99
3	100.00	89.16	99.99
4	100.00	98.62	99.99
5	100.00	95.91	99.96
6	100.00	97.65	99.74
7	100.00	89.16	99.51
8	100.00	97.01	99.80
9	96.85	72.53	95.97
10	100.00	80.77	100.00

Table 3: Total Expected Revenue: What is the percentage of revenue achieved compared to the revenue of the exact solution?

#portfolio	eksak_revenue	existing_revenue	spiral_revenue
1	4.778 mil IDR	81.67%	90.19%
2	7.194 mil IDR	74.56%	80.52%
3	7.428 mil IDR	34.93%	50.24%
4	5.568 mil IDR	88.26%	92.53%
5	2.606 mil IDR	81.92%	90.65%
6	6.203 mil IDR	94.74%	94.57%
7	7.4 mil IDR	74.04%	88.4%
8	4.146 mil IDR	91.13%	99.41%
9	5.097 mil IDR	82.27%	99.34%
10	5.525 mil IDR	80.41%	97.02%

Table 4: Similarity Product Portfolio

#portfolio	similar_product	dissimilar_product
1	63	37
2	36	64
3	55	45
4	59	41
5	74	26
6	48	52
7	63	37
8	85	15
9	91	9
10	68	32

Table 5: Product Proportion: How many products are given and not discounted?

#portfolio	portofolio_eksak	portofolio_spiral
1	Discount: 69; No discount: 31	Discount: 62; No Discount: 38
2	Discount: 14; No discount: 86	Discount: 72; No Discount: 28
3	Discount: 33; No discount: 67	Discount: 56; No Discount: 44
4	Discount: 54; No discount: 46	Discount: 69; No Discount: 31
5	Discount: 87; No discount: 13	Discount: 73; No Discount: 27
6	Discount: 42; No discount: 58	Discount: 72; No Discount: 28
7	Discount: 62; No discount: 38	Discount: 83; No Discount: 17
8	Discount: 86; No discount: 14	Discount: 89; No Discount: 11
9	Discount: 99; No discount: 1	Discount: 90; No Discount: 10
10	Discount: 82; No discount: 18	Discount: 74; No Discount: 26

- tes 1
- tes 2

Sek 1

Sek 2

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Policy 1

Let:

- $M = \{1, 2, 3, 4\}$ as the set of weeks on the supply cycle,
- N as the number of raw materials,
- $\mathfrak{N} = \{1, 2, ..., N\}$ as the set of raw-materials,
- I as the number of items,
- $\mathfrak{J} = \{1, 2, ..., I\}$ as the number of items,
- $P \bigcup_{j \in M} P_j$ as the set of items to be produced on the planning horizon, where P_j as the set of items to be produced on week j.
- For $i \in \mathfrak{J}, k \in \mathfrak{N}$,

$$f_{ik} = \begin{cases} 1 & , \quad \text{if item } i \text{ can be produce by using raw material } k \\ 0 & , \quad \text{otherwise} \end{cases}$$

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