Cocomo II

Consider a database application project with the following Characteristics:

I] The application has 4 screens with 4 views each and 7 data tables for 9 servers and 4 clients.

II] The application may generate two report of 6 sections each from 07 data tables for two server and 3 clients. There is 10% reuse of object points.

The developer's experience and Capability in the similar enviorment is low. The maturity of organization in terms of Capability is also low. Calculate the object point count, New object points and effort to develop such a project.

Step 1: Calculate object point.

i)] For 4 screen. 4 views and 7 data tables for 3 servers and 4 clients.

$$4 \times 2 = 8$$

[2 from table]

ii)] 2 reports of 6 section each from 7 data tables for 2 servers and 3 clients.

$$2 \times 8 = 16$$

Step 2] object point = 8 + 16 = 24

[from value of Step 1 add]

Developer's Experience & capability, ICASE maturity & capability	PROD (NOP/pm
Very low	4
Low	7
Nominal	13
High	25
Very High	50

Productivity Rate

Step2: Calculate new object point (NOP): $\dfrac{(object\ points)^*(100-nrreuse)}{100}$

$$= \dfrac{24*(100-10)}{100}$$

$$= \dfrac{24*90}{100}$$

$$= 21.6$$

Step3: Calculate productivity rate(PROD):NOP / Person month

Productivity rate = 7

Step4 Calculate person the effort in persons-months:

$$Effort\ in\ PM = \dfrac{NOP}{PROD}$$

$$= \dfrac{21.6}{7}$$

$$= 3.0857$$