

# DATA ANALYTICS WITH IBM COGNOS

## ASSIGNMENT 4

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### 2 BASIC CALCULATIONS:

The screenshot shows a Cognos report titled 'Sheet 12'. The columns are 'Category', 'Sub-Category', and 'Order Date' (with years 2011, 2012, 2013, 2014). The rows are categorized by 'Furniture', 'Office Supplies', and 'Technology'. The data is color-coded: yellow for 'Not Profitable' and orange for 'Profitable'. The 'Marks' section on the left shows 'SUM(Profit)' and 'AGG(PROFIT..)'.

| Category        | Sub-Category | 2011    | 2012   | 2013    | 2014    |
|-----------------|--------------|---------|--------|---------|---------|
| Furniture       | Bookcases    | 27,515  | 29,137 | 43,049  | 63,219  |
|                 | Chairs       | 29,943  | 28,755 | 40,449  | 41,248  |
|                 | Furnishings  | 7,310   | 9,562  | 14,665  | 15,391  |
|                 | Tables       | -11,075 | -8,422 | -14,040 | -20,548 |
| Office Supplies | Appliances   | 22,888  | 24,316 | 41,485  | 53,041  |
|                 | Art          | 10,399  | 11,841 | 15,630  | 20,094  |
|                 | Binders      | 11,447  | 17,123 | 21,524  | 22,355  |
|                 | Envelopes    | 5,056   | 5,503  | 9,572   | 8,350   |
|                 | Fasteners    | 1,937   | 3,004  | 2,912   | 3,672   |
|                 | Labels       | 3,119   | 3,230  | 3,607   | 5,055   |
|                 | Paper        | 10,665  | 10,567 | 15,880  | 20,975  |
|                 | Storage      | 15,944  | 21,489 | 32,011  | 39,017  |
|                 | Supplies     | 4,580   | 5,012  | 5,625   | 7,355   |
|                 | Technology   | 15,720  | 33,307 | 38,095  | 41,594  |
| Technology      | Accessories  | 30,375  | 51,943 | 72,301  | 124,048 |
|                 | Copiers      | 9,225   | 15,404 | 15,612  | 18,628  |
|                 | Machines     | 53,927  | 45,223 | 46,509  | 70,658  |
|                 | Phones       |         |        |         |         |

The screenshot shows a Cognos report titled 'Rank'. The columns are 'Month of Order Date' and 'Region' (Africa, Canada, Caribbean, Central, East, EMEA, North, North Asia, Oceania, South, Southeast, West). The rows are the months of the year. The data is color-coded: yellow for 'Not Profitable' and orange for 'Profitable'. The 'Marks' section on the left shows 'SUM(Sales)'.

| Month of Order Date | Africa | Canada | Caribbean | Central | East | EMEA | North | North Asia | Oceania | South | Southeast | West |
|---------------------|--------|--------|-----------|---------|------|------|-------|------------|---------|-------|-----------|------|
| January             | 11     | 8      | 12        | 11      | 9    | 11   | 7     | 10         | 8       | 8     | 11        | 9    |
| February            | 8      | 6      | 11        | 12      | 11   | 12   | 10    | 12         | 11      | 10    | 12        | 12   |
| March               | 12     | 11     | 10        | 10      | 10   | 10   | 6     | 8          | 9       | 9     | 10        | 10   |
| April               | 10     | 12     | 8         | 7       | 8    | 8    | 12    | 11         | 12      | 11    | 8         | 11   |
| May                 | 7      | 10     | 6         | 8       | 6    | 6    | 8     | 7          | 7       | 5     | 7         | 8    |
| June                | 5      | 4      | 4         | 5       | 7    | 7    | 1     | 3          | 5       | 3     | 4         | 1    |
| July                | 9      | 7      | 9         | 9       | 12   | 9    | 11    | 9          | 10      | 12    | 9         | 7    |
| August              | 2      | 1      | 7         | 4       | 2    | 5    | 2     | 5          | 1       | 7     | 6         | 5    |
| September           | 4      | 9      | 5         | 3       | 5    | 2    | 3     | 2          | 6       | 6     | 2         | 5    |
| October             | 6      | 5      | 1         | 6       | 1    | 4    | 9     | 6          | 2       | 2     | 5         | 4    |
| November            | 3      | 3      | 3         | 2       | 3    | 1    | 5     | 4          | 3       | 1     | 3         | 3    |
| December            | 1      | 2      | 2         | 1       | 4    | 3    | 4     | 1          | 4       | 4     | 1         | 2    |

### 2 LOD EXPRESSIONS:

