

**If you are using a VMimage it is recommended that you take a snapshot of it before you start these activities.**

## Activity A07 Capital\_Expenditure.

### Objectives:

This activity is designed to increase your knowledge and experience with TM1 Cognos Insight for modeling. In this activity you are supplied with an existing model in the form of a cdd file.

Work in Cognos Insight to achieve the following:

- Create a pick list for selecting months on the Capital Expenditure input view.
- Use accumulation link logic in the calculation for Capital Expenditure with the months pick list serving as the virtual dimension.
- Use cube calculations to calculate the increase in depreciation
- Add previous and next attributes to the Months dimension.
- Use the cumulative function to calculate the monthly impact on depreciation of these new assets.

### How to use the resources for this activity:

This activity is designed to be used either for

- Initial learning on IBM Cognos Insight
- To practice skills already learnt.

In both cases read the information in this document describing the business scenario, the suggested solution and files that should be used.

Then, if you are **new to IBM Cognos Insight**, you can use both the **accompanying video** and **detailed activity step by step instructions** to guide you through the activity. The video and accompanying commentary shows and explains the steps that were taken to create the suggested solution. The activity outline document gives detailed step by step instructions with screen shots.

If you are **familiar with IBM Cognos Insight** and want to practice skills you already have you can use these student instructions to gain an understanding of the business scenario and what the suggested solution might be. Then you can carry out the activity and compare your solution with the screen shot below. If you require additional assistance at any point you can review the relevant parts of the video or outline document.

In addition, all activities, apart from the first one (A01\_Simple\_Revenue\_Analysis), have a starting cdd file which can be opened with IBM Cognos Insight. In some cases these are identical to the completed cdd of the previous activity. In other cases there will be additional modelling included to allow you to focus on the main objectives of the activity. Always read the student instructions to gain an understanding of the activity and what has been supplied as a starting point.

### **Additional resources available for IBM internal staff and BA partners:**

At each product release, enablement resources are published on W3 Connections and PartnerWorld. These include a number of product focused videos. These are useful learning resources which support these activities. To assist you to locate appropriate videos for each activity we are undertaking a review and cross reference of these videos. To allow this to remain current, maintain an accurate list of videos and correctly identify which ones support each activity we will create a reference document and included it as part of the program introduction. Please be aware that this document will change at each product release and as extra resources are created between releases.

### **Business Scenario:**

The customer has asked for a demonstration a simple model to input planned assets and then calculate both the increase in depreciation per month plus the depreciation across the 12 month period. He has already developed the outline of a model with Cognos Insight and asks that you add the functionality to do the following:

- Make the purchase month in the input view a pick list based on the current members of the month dimension.
- Use the purchase month to accumulate the asset cost onto the summary cube.
- Calculate the increase in depreciation for each month.
- Calculate the Depreciation by using the increase in depreciation for each month and accumulating with the Depreciation across all the months to date.

Here is a screen shot of the suggested solution for guidance.

## IBM Cognos TM1 Enablement Program – Activity A07

A07-Capital Expenditure.cdd - IBM Cognos Insight

Style Insert Get Data Explore

# Capital Expenditure

**Input Capital Expenditure**

records CapitalExpenditure Measures PCs Facilities Budget

	Description	Purchase Month	Cost
Total of records			12,000
CE1	Laptop for Joe	Jan	5,000
CE2	PC for Fred	Jan	4,000
CE3	Notebook for Anne	Mar	3,000
CE4			
CE5			
CE6			
CE7			
CE8			
CE9			
CE10			
CE11			
CE12			

**Asset Life**

assettypes Asset Life Measures

	Asset Life
PCs	36
Servers	60
Vehicles	60
Fixtures&Fittings	120

### Capital Expenditure And Depreciation on New Assets

#### Summary

	Cap Ex and Depn Measures	months	PCs	Facilities	Budget												
	Total of months	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec				
Capital Expenditure	12,000	9,000	0	3,000	0	0	0	0	0	0	0	0	0	0	0	0	0
Increase in Depn	333	250	0	83	0	0	0	0	0	0	0	0	0	0	0	0	0
Depreciation	3,833	250	250	333	333	333	333	333	333	333	333	333	333	333	333	333	333

An existing model is supplied in the format of a cdd file which can be opened in Cognos Insight. It is called A07\_Capital\_Expenditure\_Before.cdd. It is suggested that you do a Save As on the file before starting the activity.

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