**Solution for Problem2 of Module 2 Assignment**

Measures are:

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| **Data Source** | **Measures** | **Aggregation Properties** |
| Other Data Sources: Sales Summary Table | Actual\_Units  Forecast\_Units  Actual\_Amount  Forecast\_Amount | All additive. |
| Other Data Sources: Cost Summary Table | Actual\_Units  Budget\_Units  Actual\_Labor\_Cost  Budget\_Labor\_Cost  Actual\_Material\_Cost  Budget\_Material\_Cost  Actual\_Machine\_Cost  Budget\_Machine\_Cost  Actual\_Overhead\_Cost  Budget\_Overhead\_Cost | All additive. |
| Other Data Sources: Leads Table | Success,  Quote\_Qty  Quote\_Price  Quote\_Value | Success and Quote\_Price are non additive.  Rest two are additive. |
| ERP Database: Job Table | Unit\_Price  Quantity\_Ordered  Quotation\_Quantity  Quotation\_Amount | Unit\_Price is non additive.  Rest three are additive. |
| ERP Database: Sub Job Table | Cost\_Labour  Cost\_Material  Cost\_Overhead  Quantity\_Produced  Sub\_Job\_Amount | All additive |
| ERP Database: Invoice Table | Invoice\_Amount  Invoice\_Quantity  Invoice\_Shipped | All additive |
| ERP Database: Shipment Table | Actual\_Quantity  Requested\_Quantity  Boxes  Quantity\_Per\_Box  Quantity\_Per\_Partial\_Box  Shipment\_Amount | Quantity\_Per\_box non additive  Quantity\_Per\_Partial\_Box Non additive  Rest all are additive |
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Now adding these measures to different cubes:

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| **Cube** | **Dimensions** | **Measures** |
| Sales (Financial) | Time | Actual\_Units  Forecast\_Units  Actual\_Amount  Forecast\_Amount |
| Cost (Financial) | Time,  MachineType | Actual\_Units  Budget\_Units  Actual\_Labor\_Cost  Budget\_Labor\_Cost  Actual\_Material\_Cost  Budget\_Material\_Cost  Actual\_Machine\_Cost  Budget\_Machine\_Cost  Actual\_Overhead\_Cost  Budget\_Overhead\_Cost |
| Lead | Customer,  Sales\_Agent,  Time | Success,  Quote\_Qty  Quote\_Price  Quote\_Value |
| Job | Customer,  Time  ,Sales\_Agent | Unit\_Price  Quantity\_Ordered  Quotation\_Quantity  Quotation\_Amount |
| SubJob | Customer  MachineType,  Time | Cost\_Labour  Cost\_Material  Cost\_Overhead  Quantity\_Produced  Sub\_Job\_Amount |
| Shipment | CustLocation,  Time | Actual\_Quantity  Requested\_Quantity  Boxes  Quantity\_Per\_Box  Quantity\_Per\_Partial\_Box  Shipment\_Amount |
| Invoice | Customer,  Time | Invoice\_Amount  Invoice\_Quantity  Invoice\_Shipped |