Q1.

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| --- | --- | --- | --- |
| **Dimension** | **Attributes** | **Hierarchies** | **Data Sources** |
| Customer | *CustKey* |  | ERP database |
|  | *Cust\_Name* |  | ERP database |
|  | *E\_Mail\_Address* |  | ERP database |
|  | *Location* | country / state/ city / zip | ERP database |
|  | *Phone* | country code -> area code -> prefix -> line | ERP database |
|  | *Terms\_Code* |  | ERP database |
| MachineType | *Machine\_Type\_Id* |  | ERP database |
|  | *Manufacturer* |  | ERP database |
|  | *Model* |  | ERP database |
|  | *Rate\_Per\_Hour* |  | ERP database |
|  | *Number\_Of\_Machines* |  | ERP database |
| SalesClass | *Sales\_Class\_Id* |  | ERP database |
|  | *Sales\_Class\_Desc* |  | ERP database |
|  | *Base\_Price* |  | ERP database |
| Time | *Date\_First\_Order* | year -> month -> day | CUSTOMER |
|  | *Date\_First\_Order* | year -> month -> day | CUSTLOCATION |
| *Date\_Invoiced* | year -> month -> day | INVOICE |
| *Date\_Due* | year -> month -> day | INVOICE |
| *Posting\_Date* | year -> month -> day | INVOICE |
| *Date\_Promised* | year -> month -> day | JOB |
| *Contract\_Date* | year -> month -> day | JOB |
| *Date\_ship\_By* | year -> month -> day | JOB |
| *Date\_Prod\_Begin* | year -> month -> day | JOB |
| *Date\_Prod\_End* | year -> month -> day | SUBJOB |
| *Sales\_Class\_Id* | year -> month -> day | SUBJOB |
| *Actual\_Ship\_Date* | year -> month -> day | SHIPEMENT |
| *Requested\_Ship\_Date* | year -> month -> day | SHIPEMENT |
| *Begin\_Date* | year -> month -> day | Financial Sales Summary |
| *End\_Date* | year -> month -> day | Financial Sales Summary |
| CustLocation | *Cust\_Key* |  | ERP database |
|  | *Cust\_Name* |  | ERP database |
|  | *E\_Mail\_Address* | top leveldomain -> second level domain ->local part | ERP database |
|  | *City* | country / state/ city / zip | ERP database |
|  | *State* | country / state/ city / zip | ERP database |
|  | *Zip* | country / state/ city / zip | ERP database |
|  | *Country* | continet / country / sate / city / | ERP database |
| Location | *Location\_Id* |  | ERP database |
|  | *Location\_Name* | state / city | ERP database |
| SalesAgent | *Sales\_Agent\_Id* |  | ERP database |
|  | *Sales\_Agent\_Name* |  | ERP database |
|  | *State* | country / state | ERP database |
|  | *Country* | continet / country | ERP database |