**Ex1-5 – Creating and populating Dim\_TIME on DW-Layer**

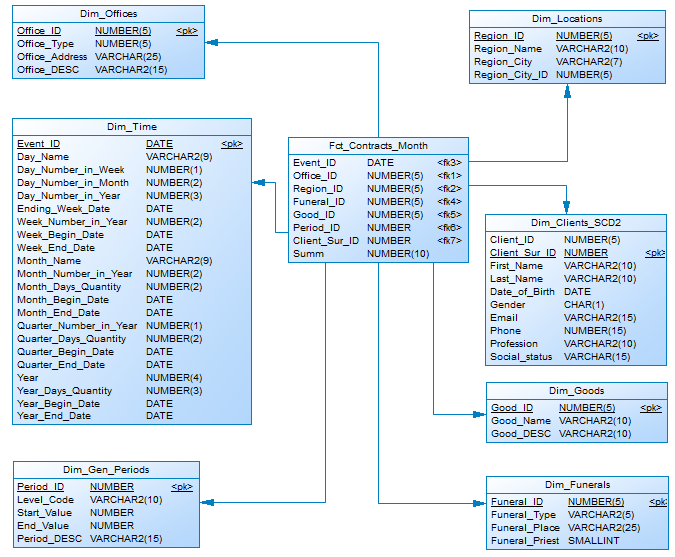
* + Physical diagram



**Ex6 – Dimensions Types**

Next points are mandatory:

* Start scheme must use no less one of SCD type 2 Dimension
* Start scheme must use prepared dimensions: DIM\_TIME, DIM\_LOCATIONS
* Start scheme must use one of period dimensions: DIM\_GEN\_PERIODS

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|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Type** | **Size** | **DW – Merged Dimensions** | **Descriptions** |
| Dim\_Time | SCD1 | BIG | DW.T\_DAYS, DW.T\_WEEKS, DW.T\_MONTHS, DW.T\_QUARTERS,  DW.T\_YEARS | Stores all information about dates of our contracts |
| Dim\_Clients\_SCD2 | SCD2 | BIG | DW.T\_Clients  DW.T\_Professions | Here detailed info about clients, their professions and statuses stores |
| Dim\_Offices | SCD1 | SMALL |  | Dimension stores information about all of the offices the company has |
| Dim\_Funerals | SCD1 | SMALL |  | Here detailed info about funeral stores (type, place, with a priest or no) |
| Dim\_Goods | SCD1 | SMALL |  | Stores info about ritual goods the company sales |
| Dim\_Locations | SCD1 | SMALL | DW.T\_Regions  DW.T\_Cities | Here we keep information about cities where funeral were provided and offices are situated |
| Dim\_Gen\_Periods | SCD1 | SMALL | DW.T\_PERIOD\_DESC  DW.T\_PER\_START  DW.T\_PER\_END  DW.T\_LEVEL\_CODE | Specific type of dimension, which allows grouping of facts on the basis of logic (the age of clients). |

**Ex7 – Dimensions** **Hierarchies**

**DIM\_GEN\_TIME**

**Hierarchy DAY – WEEK – MONTH – YEAR**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **LEVEL\_CODE** | **LEVEL\_DESC** | **LEVEL\_NATURAL\_KEY** |
| DAYs | DAY | Store all day at the calendar | DAY\_ID |
| WEEKs | WEEK | Store all weeks at the calendar year | WEEK\_ID |
| MONTHs | MONTH | Store months at the calendar year | MONTH\_ID |
| YEARs | YEAR | Store years at the calendar year | YEAR\_ID |

**Hierarchy DAY – MONTH – QUARTER –YEAR**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **LEVEL\_CODE** | **LEVEL\_DESC** | **LEVEL\_NATURAL\_KEY** |
| DAYs | DAY | Store day at the calendar year | DAY\_ID |
| MONTHSs | MONTH | Store months at the calendar year | WEEK\_ID |
| QUARTERs | QUARTER | Store quarters at the calendar year | QUARTER\_ID |
| YEARs | YEAR | Store years at the calendar year | YEAR\_ID |

**DIM\_Locations**

**Hierarchy CITY – STATE**

|  |  |  |  |
| --- | --- | --- | --- |
| **Name** | **LEVEL\_CODE** | **LEVEL\_DESC** | **LEVEL\_NATURAL\_KEY** |
| Cities | City | Store all the cities for each state | State\_City\_ID |
| STATEs | State | Store all the states of the country | State\_ID |

## Ex8 – Facts Aggregations

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Name** | **Code** | **Table Name** | **Additive** | **Descriptions** |
| Counts sums of contracts | Summ\_of\_contract | Fct\_Contracts | + | Calculate distinct values of company’s sums of contracts at the period. |