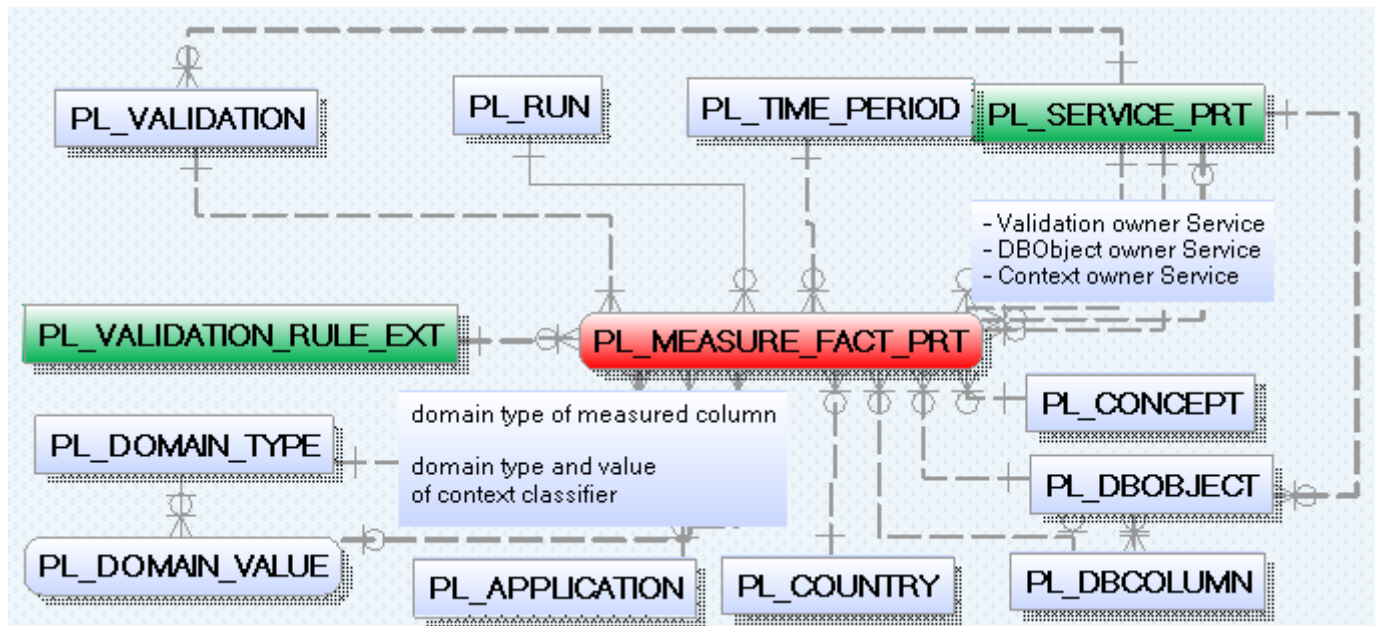


Sample data model – conceptual model

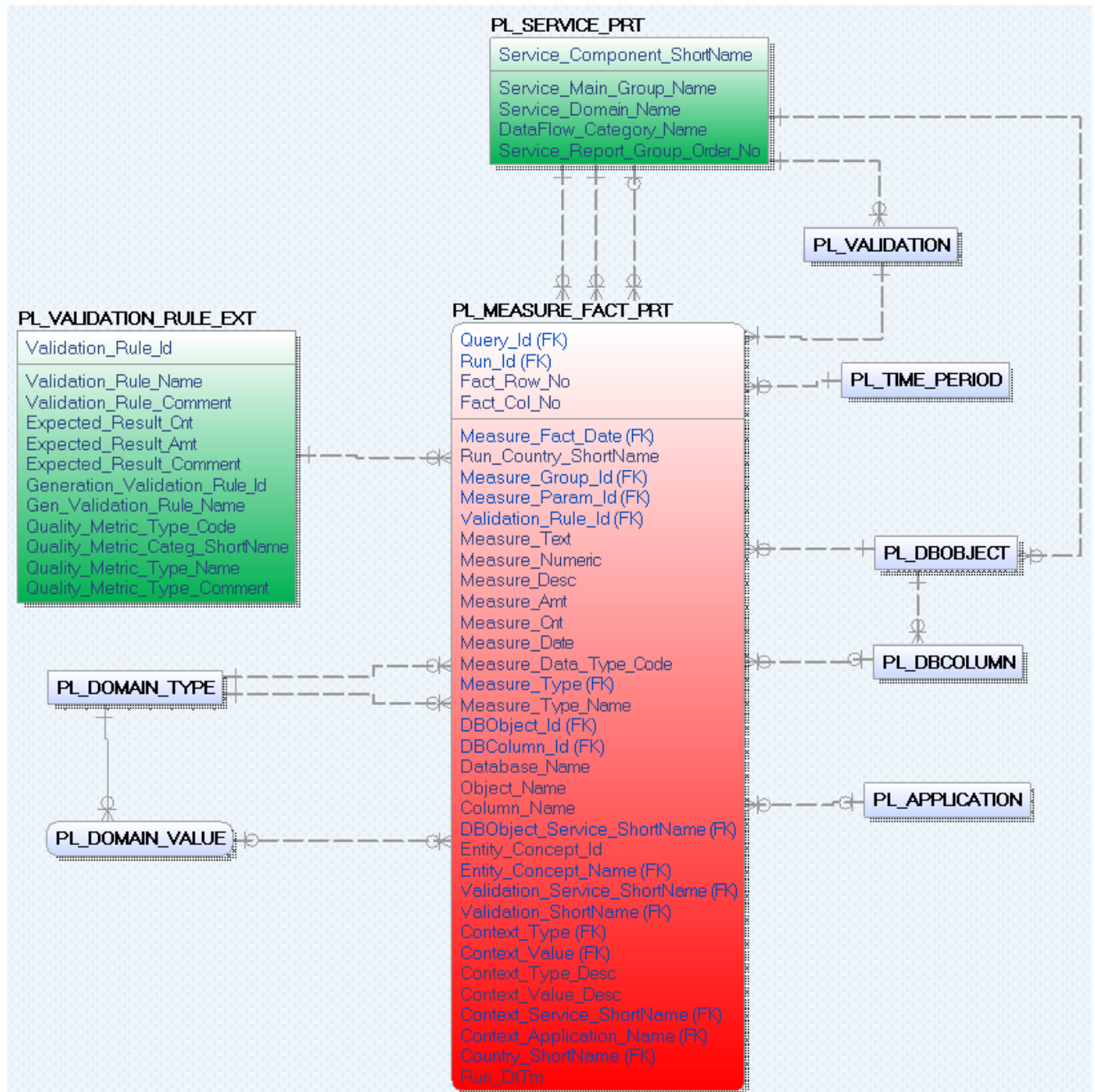


Basic Concepts

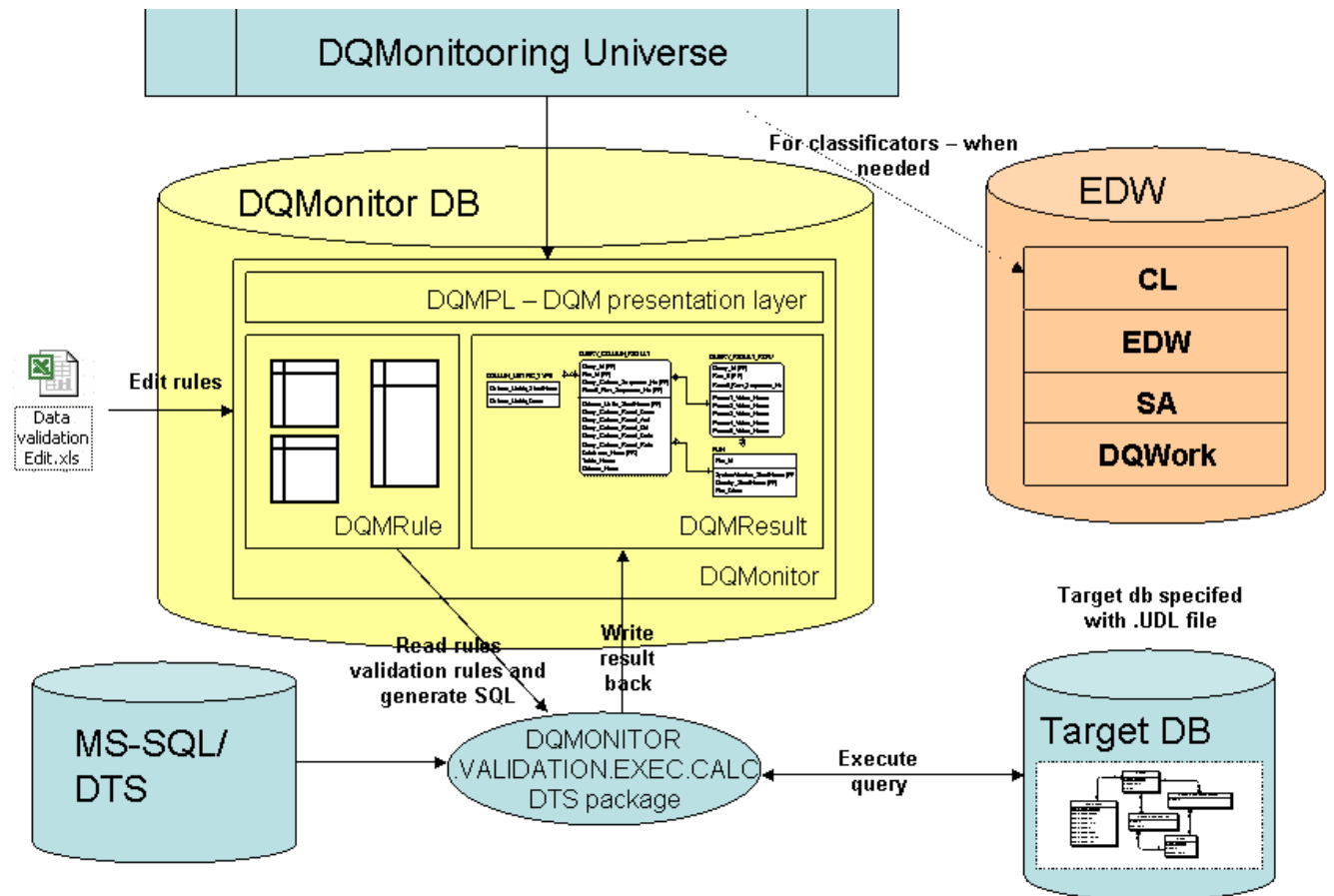
- **Validation** - set of measurement rules executed as one process
- **Run** - execution of validationTime Period - time dimension of data content
- **Service** - building block of architecture, services can be categorised to business, information, source interfaces and supporting services
- **Concept** - entity in conceptual model (high level data model)
- **DBObject, DBColumn** - database objects and columns
- **Domain Type** - classifier / db object domain
- **Domain Value** - classifier type code/object id
- **Application** - it application, source of the dataset

Context implements clustering of dbobject content to non-overlapping subsets - eg. agreements by agreement source or segmentation by segmentation category)

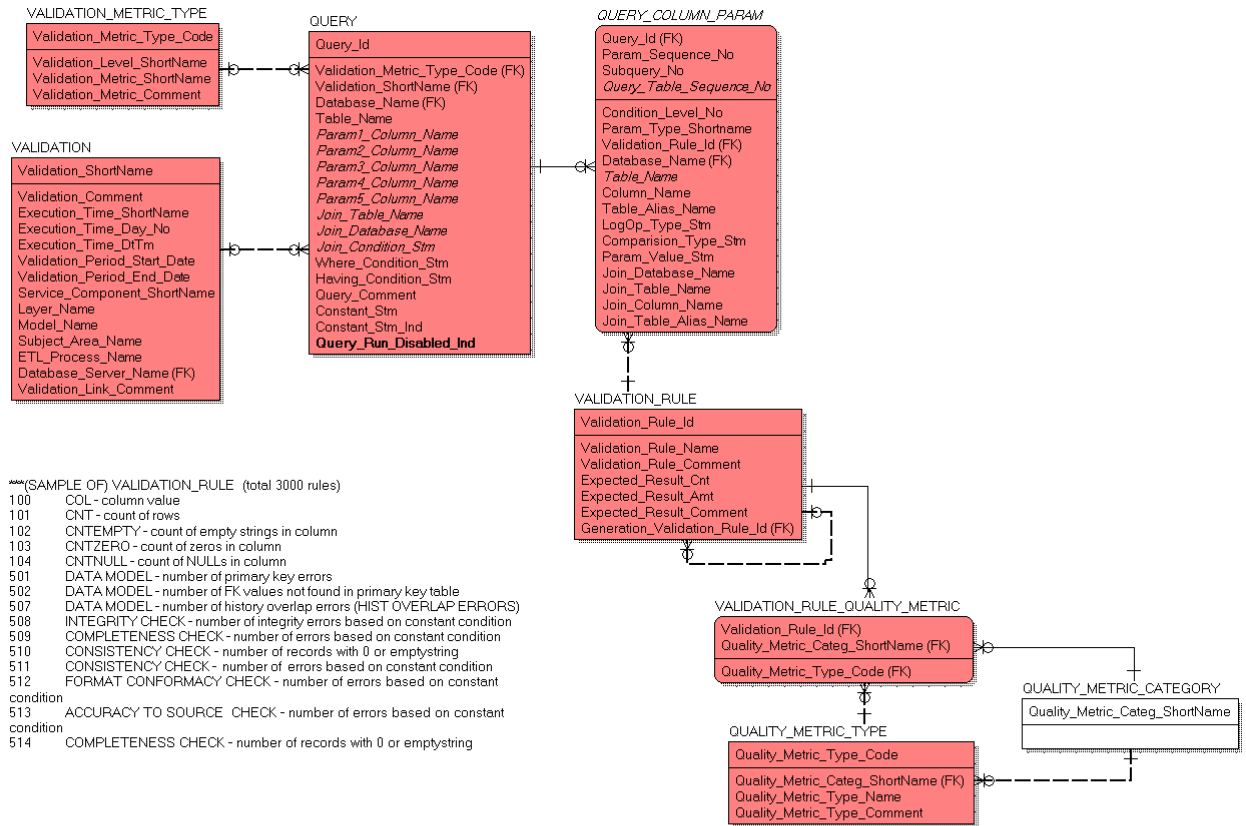
Sample data model – physical data model



Data quality component overview

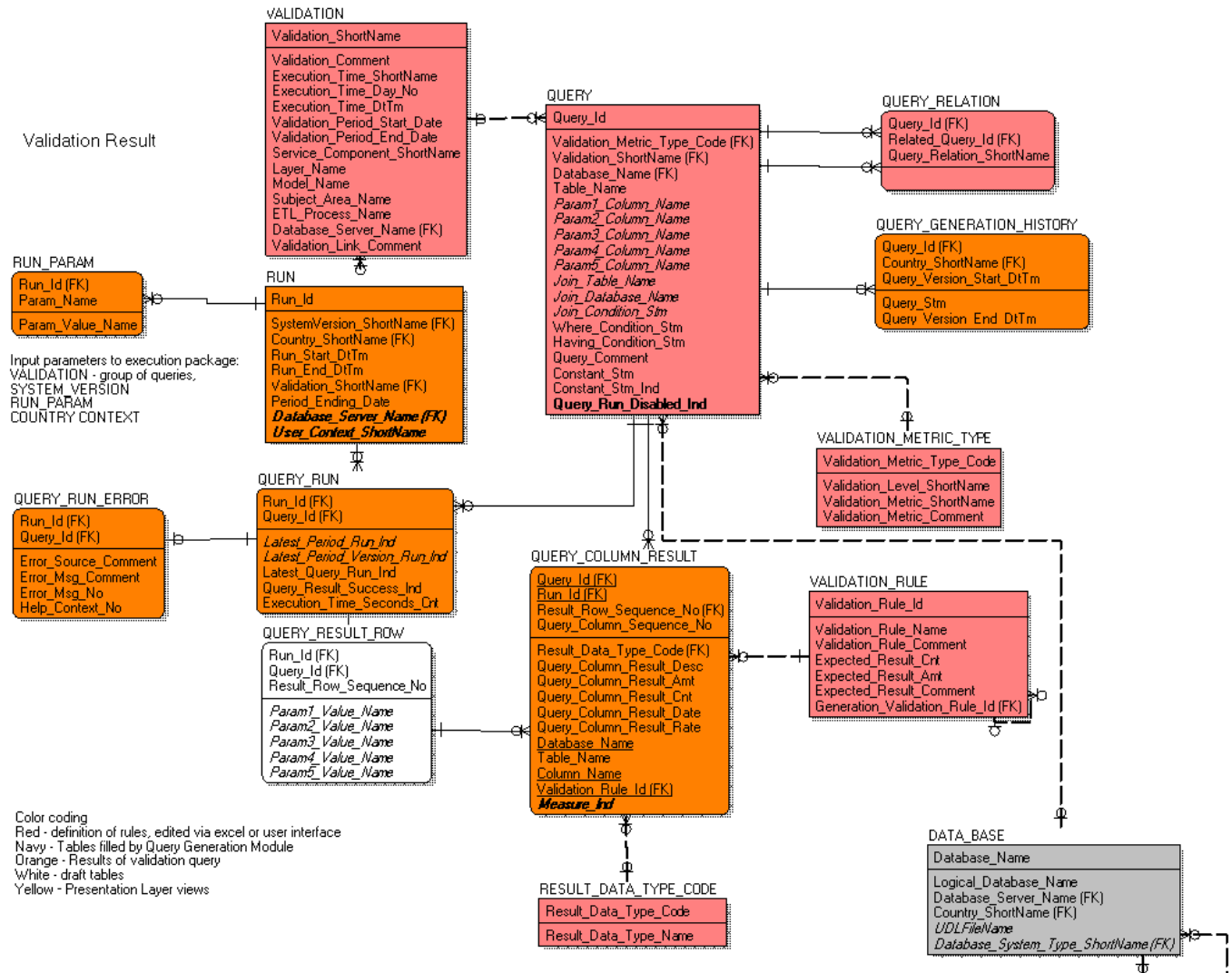


Validation Definition

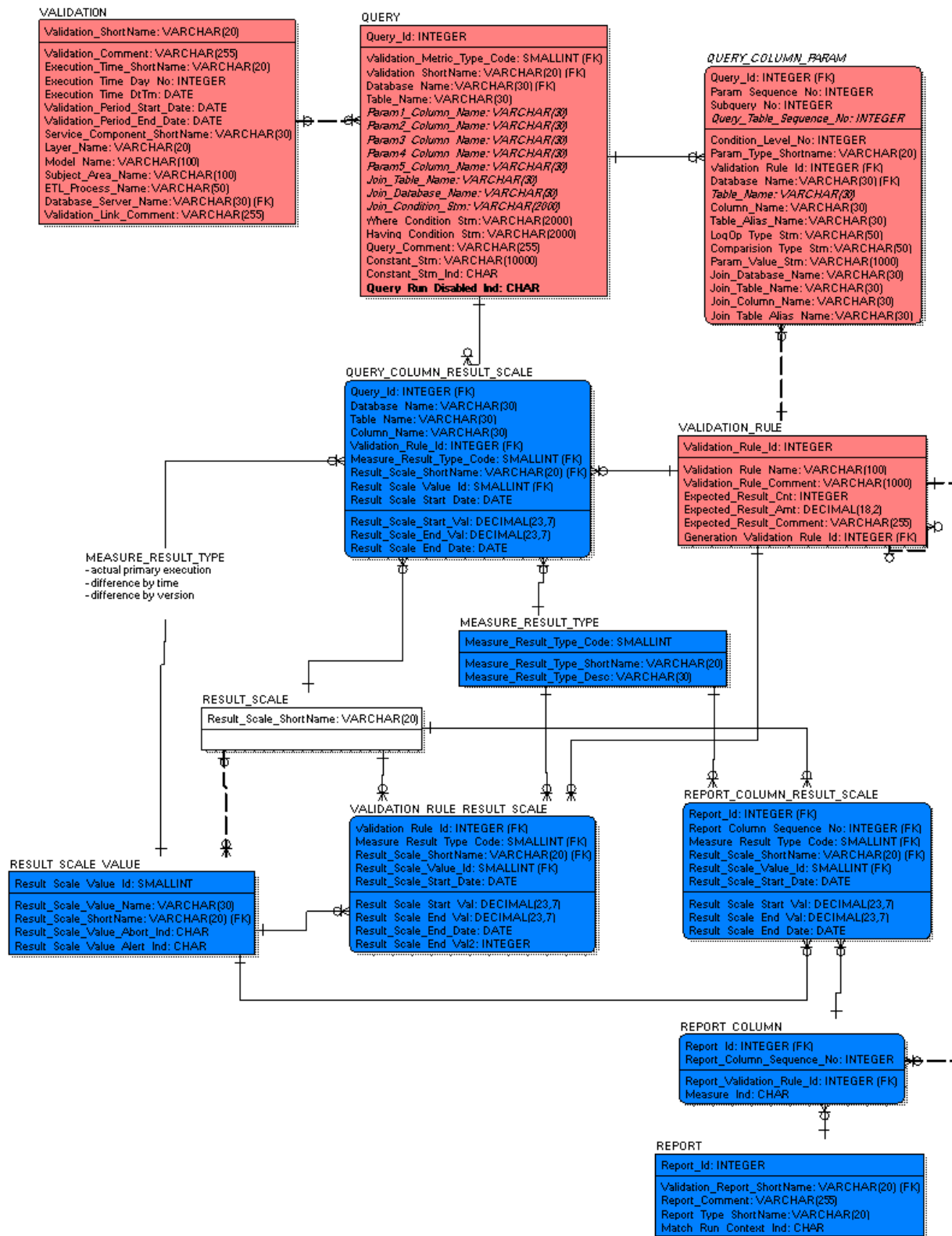


***QUALITY_METRIC_TYPE				
Quality_Metric_Type_Code	Quality_Metric_Categ_ShortName	Quality_Metric_Type_Name	Quality_Metric_Type_Comment	
0	NA	UNKNOWN QUALITY METRIC	Unknown quality metric	
1	DOKPI	CLARITY	All data elements have clear business meaning (name and definition) [understandable]	
2	DOKPI	COMPLETENESS	All required business attribute values exist in record level [existence of mandatory attributes]	
3	DOKPI	FORMAT CONFORMANCY	Data type, length, min max value, ...[right data type, length and format of attributes]	
4	DOKPI	UNIQUE IDENTIFIABILITY	Every record represents one unique real world event or person or thing [non duplicate in technical and in real world level]	
5	DOKPI	REFERENTIAL INTEGRITY	All important relationships exist between related data records [relationships - in one DB, enterprise, world]	
6	DOKPI	CONSISTENCY	all similar attribute values are not conflict with each other [non conflict - on record level or cross record level]	
7	DOKPI	ACCURACY TO SOURCE	All loaded and transformed data is correct according to a source	
8	DOKPI	TIMELINESS	All data is available on the agreed time	
9	DOERR	COMPLETENESS	All required business attribute values exist in record level [existence of mandatory attributes]	
10	DOERR	FORMAT CONFORMANCY	Data type, length, min max value, ...[right data type, length and format of attributes]	
11	DOERR	UNIQUE IDENTIFIABILITY	Every record represents one unique real world event or person or thing [non duplicate in technical and in real world level]	
12	DOERR	REFERENTIAL INTEGRITY	All important relationships exist between related data records [relationships - in one DB, enterprise, world]	
14	DOERR	CONSISTENCY	all similar attribute values are not conflict with each other [non conflict - on record level or cross record level]	
15	DOERR	ACCURACY TO SOURCE	All loaded and transformed data is correct according to a source	
16	DOERR	TIMELINESS	All data is available on the agreed time	
17	DOERR	CLARITY	All data elements have clear business meaning (name and definition) [understandable]	

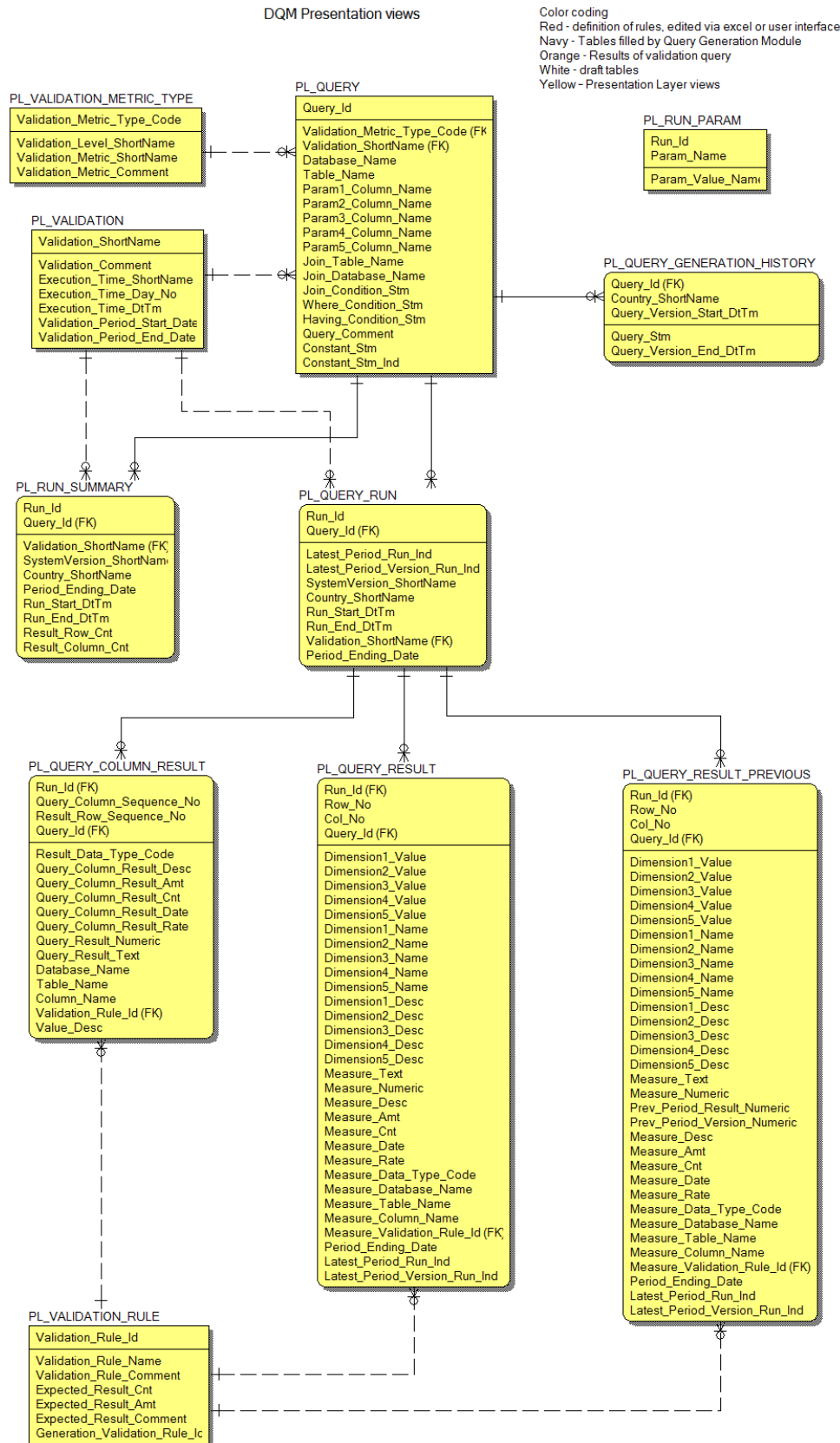
Validation Measurement Result



Validation Report and Result Scale



DQM presentation layer views



Intermediary structures for validation generation

