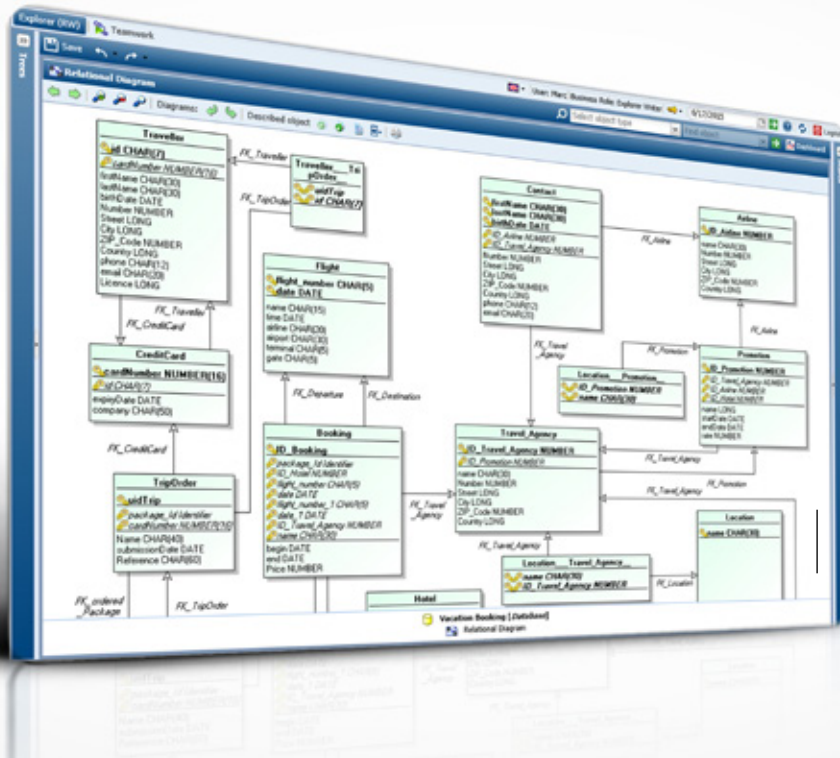Relational Diagram

MEGA DATABASE BUILDER

✓ **With MEGA Database Builder, you can define and align conceptual, logical, and physical data models, and maintain consistency and traceability between them**

MEGA Database Builder Overview

However fast your information systems evolve, data remains a key element of your business activities. MEGA Database Builder allows business analysts, data architects and database administrators to align various modeling layers.

MEGA Database Builder enables you to model all levels of your data architecture, from conceptual data models through to physical data models. It provides features to ensure the automatic transformation of one model into the other.

MEGA Database Builder is compatible with all products on the HOPEX platform. When specifically coupled with MEGA System Blueprint, MEGA Database Builder provides natural links between service models, object models and data models.

Benefits

- ❯ Support the 3 levels of data models: conceptual, logical and physical

- ❯ Guarantee consistency between the conceptual, logical and physical views

- ❯ Detect inconsistencies using modeling rules and regulations

- ❯ Generate ready-to-use SQL scripts

- ❯ Support the integration of many standard notations, such as IDEF1X, IE and UML

- ❯ Support reverse engineering from many DBMSs

Key **Features**

The MEGA Database Builder solution is powered by HOPEX, our enterprise governance platform that integrates all of our solutions. A collaborative workspace, workflows, and a shared repository help stakeholders to share information, coordinate initiatives, and ensure full traceability of their activities.

Data Modeling

Enterprise Data Models
- Mapping editor links data models to each other
- Data models are reusable
- Outline data model scope and responsibility
- Leverage business data assets for enterprise architecture

Conceptual Data Models
- Generate conceptual data models
    - Facilitate database design
- Guided data modeling
    - Targeted diagrams with relevant modeling objects
    - Custom metamodel allows for reuse, impact analysis, and more
- Multiple supported notations for interoperability, such as entity/association, IDEF1X, IE, Merise and UML

Database Modeling

Logical Data Models
- Represent logical data models using relational diagrams
- Intuitive database editor
- Automated transformation of conceptual data models into logical data models
- Map between conceptual data model objects and relational objects
- Intuitive denormalization wizards

Database Design
- Specialized editors for Views, Triggers and Stored Procedures
- DBMS-specific physical modeling
    - Full support of SQL grammar for Oracle, DB2, SQL Server and MySQL
    - Intelligent editor for implementation and optimization of SQL

Extensive Database Support

Database Alignment
- Reverse engineer database schemas for relational DBMSs
- Neutral and DBMS-specific data types
- SQL generation for the majority of relational DBMSs on the market, such as Oracle, DB2, Teradata, PostgreSQL, SQL Server and MySQL
- Incremental code generation to implement updates to physical models

Interoperability
- Toolkit to help code generation logic

Modeling Rules and Regulations
- Extensive sets of modeling Modeling Rules and Regulations:
    - Conceptual data modeling
    - Logical data modeling
    - Physical data modeling
- Create custom rules and regulations
- Rule classifications include: requirement, recommendation, suggestion
- Run detailed validity reports

mega
Managing Enterprise Complexity