GYM & FITNESS CENTER

DATA WAREHOUSING

PROJECT OVERVIEW

BUSINESS DOMAIN OVERVIEW

Gym and Fitness Center is a place where people go in order to do exercises and build up their bodies. It offers wide ranges of sport facilities, starting from basic exercising facility to satisfy the needs of the customers.





BUSINESS REQUIREMENTS

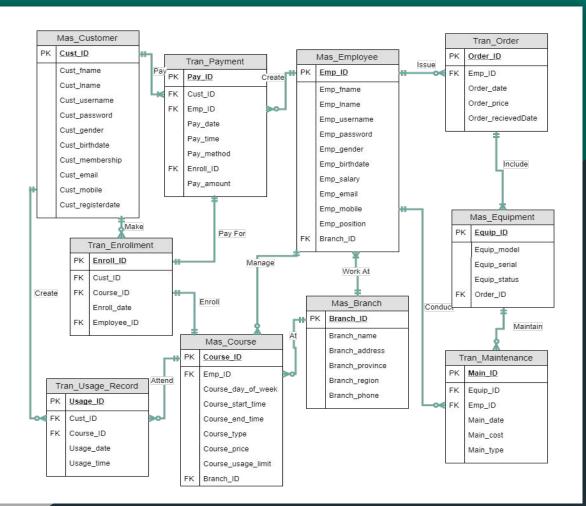
- ★ Show the total number of course usage of the each type.
- ★ Show the total number of equipment maintenance of each equipment type.
- ★ Show the total cost of the maintenance in dollar of each equipment type.
- ★ Show the total sales in dollar of each region, or each membership type.
- ★ Show the number of course sold of each region, or each membership type.

EXPECTED BENEFITS

- ★ Gain insight on popular course type usage to provide more or less courses on each type.
- ★ Compare durability of each equipment model, allowing better decision on future purchases of equipment in order to minimize maintenance cost.
- ★ Get useful details on sales and source of revenue each branch, region, or different courses or membership type.
- ★ Better decision on future course advertisement and target advertisement audiences on popular courses or membership type.

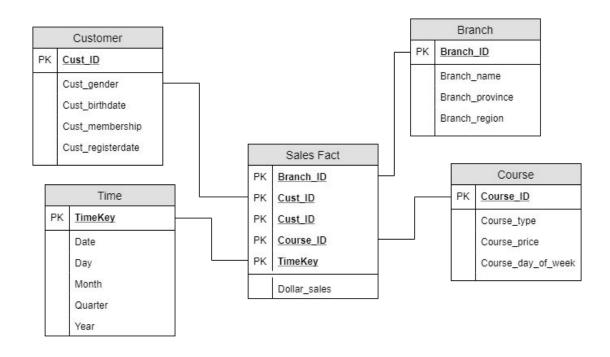
OLTP DATABASE DESIGN

ERD OF
GYM & FITNESS
CENTER
OLTP DATABASE

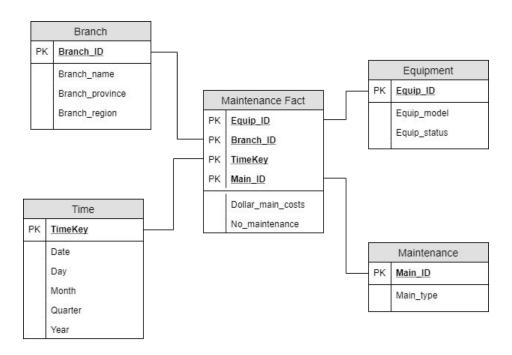


OLAP DATABASE DESIGN

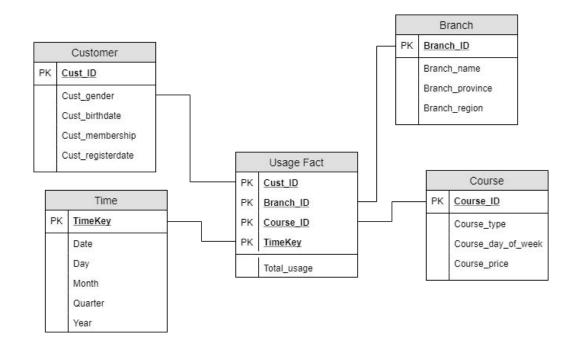
SALES FACT STAR SCHEMA



MAINTENANCE FACT STAR SCHEMA

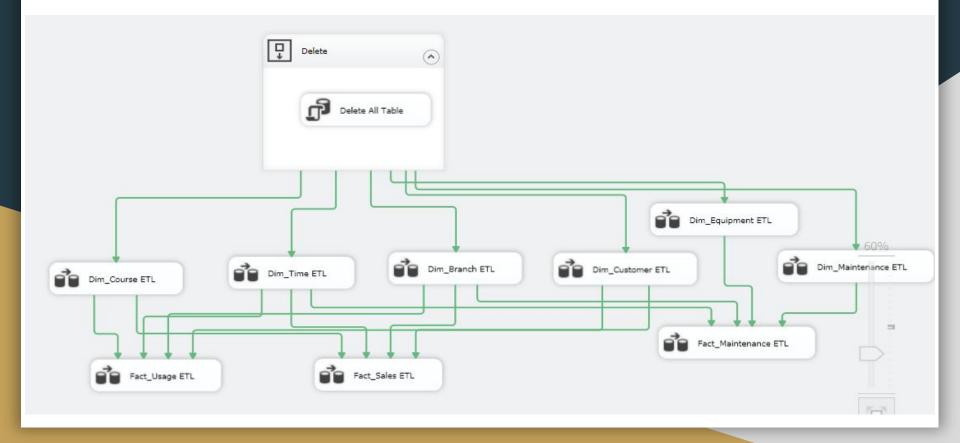


USAGE FACT STAR SCHEMA

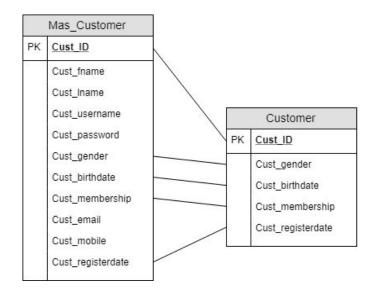


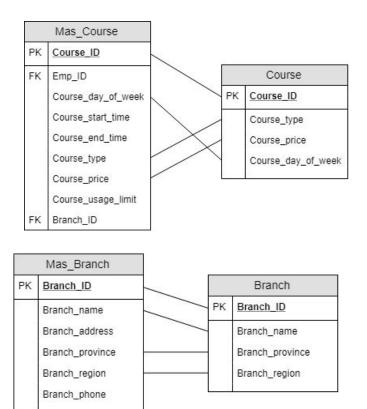
ETL PROCESS

ETL Process

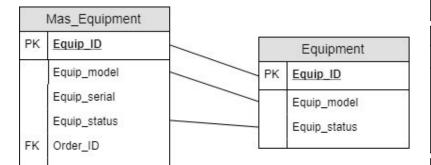


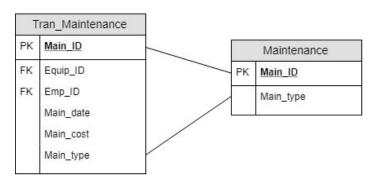
MAPPINGS

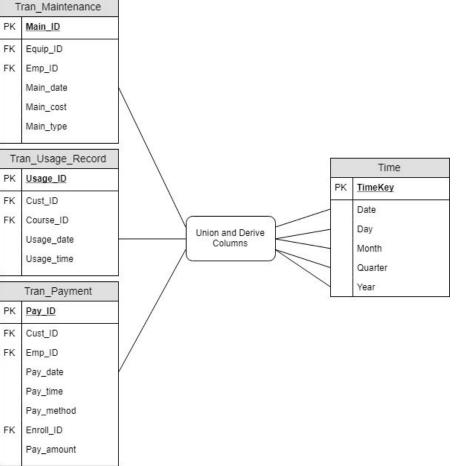




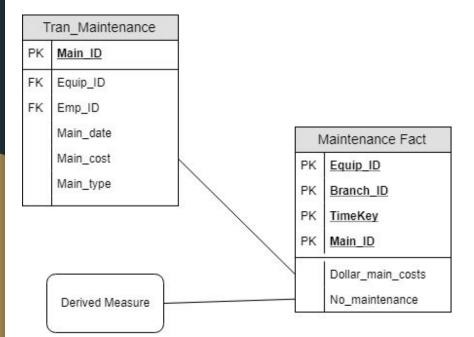
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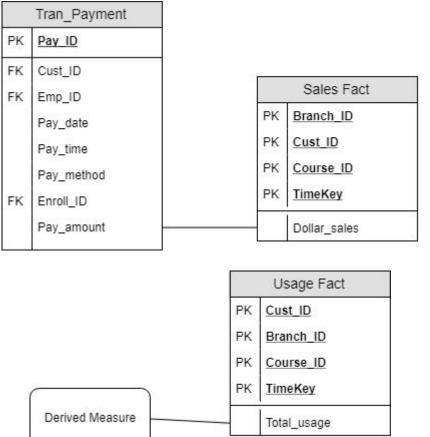






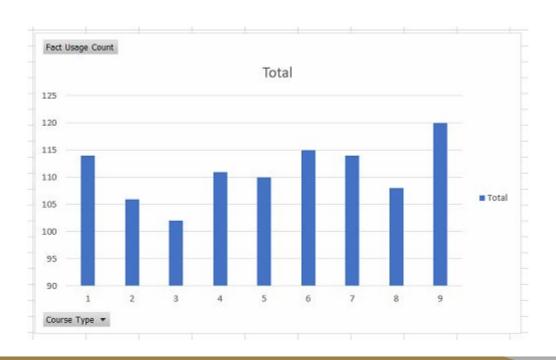
MAPPINGS



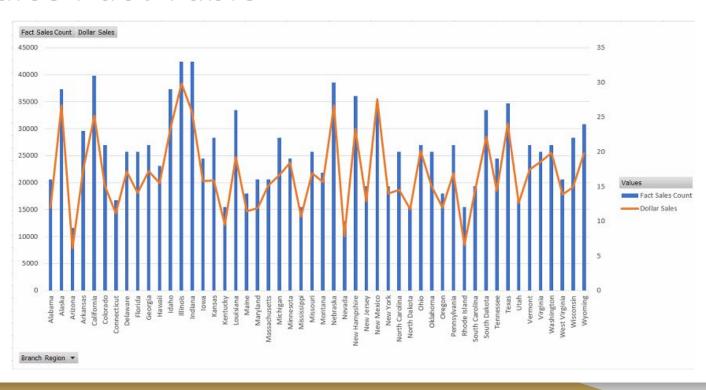


ANALYSIS

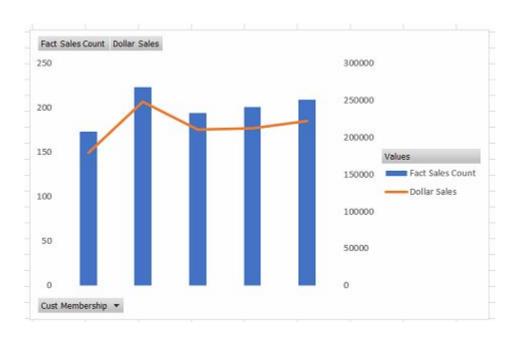
Usage Fact Table



Sales Fact Table



Maintenance Fact Table



Maintenance Fact Table

