SQL Training Project

AdventureWorks Project Orientation Document

Version V1.0

Created by Infocepts

INFOCEPTS

Document History

Version	Date	Modified By	Summary of Changes
1.0	01/02/2017	InfoCepts	Created
1.1	05/06/2017	Suvrat Rai	Reviewed & updated document to align with Adventure Work database

Table of Contents

1. Introduction

This document aims at undertaking a quantitative approach towards analyzing various functional as well as technical aspects of the business needs of Adventure Works.

This document is mainly intended for trainees and thereby to evaluate own understanding of the project and implement a practical approach towards SQL. The trainees will be executing queries against AdventureWorks database directly. This involves understanding the project and business background to start with. This project is designed with a view to enhance SQL skills.

1.1. Adventure Works

Adventure Works Cycles is a multi-national bicycles manufacturing company. Adventure Works DW contains data pertaining to a single subject area, i.e. Internet Sales. The data in the warehouse represents the online transactions AdventureWorks has had over a period of time. This data warehouse should be able to support analysis related to Product Profitability and Sales Trend and Growth. Adventure Works is a sample database for demonstration of various functional as well as technical aspects of a business need.

1.2. This Document

The pre-requisite to undertaking Adventure Works project is to project process, data collection process, and the process flow. This covers initial part of this document and is of prime importance to enter the project with a pre-understanding of the business processes. This builds a background to what is needed to be achieved and done within the scope of the project and gives a wider and vivid base to build upon. Later part will cover the technicalities involved, requirements, sources and actions.

In the AdventureWorks sample database, objects such as tables, views, and procedures are contained in schemas. Schemas change the way in which these objects can be accessed. The following table describes the schemas that are used in AdventureWorks.
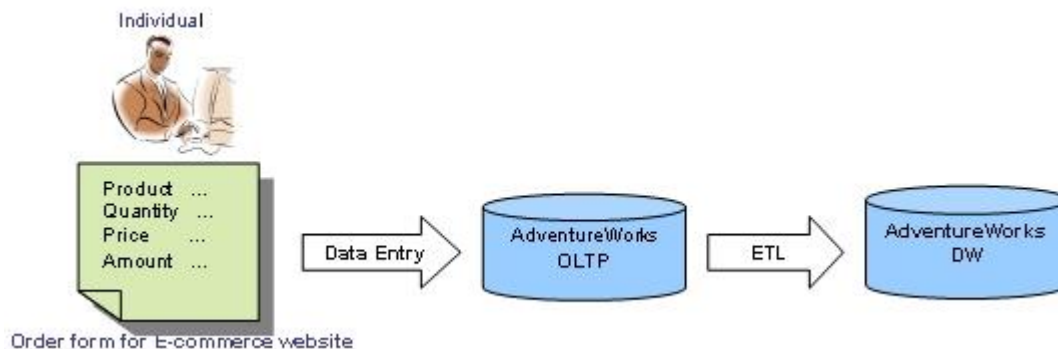
Schema	Contains objects related to
HumanResources	Employees of Adventure Works Cycles.
Person	Names and addresses of individual customers, vendors, and employees.
Production	Products manufactured and sold by Adventure Works Cycles.
Purchasing	Vendors from who parts and products are purchased.
Sales	Customers and sales-related data.

2. Business Process

2.1. Sales and Marketing

Describes Adventure Works Cycles sales and marketing environment and customers.

Adventure Works sells its products through its online store. The online customer is termed as an "Individual". The details of the Order placed by a customer are fed into the AdventureWorks OLTP system. The OLTP system stores this data for a limited period after which this data is migrated to AdventureWorks Warehouse using an ETL process to be designed in this project.

2.2. Product

Describes the products produced by Adventure Works Cycles. As a bicycle manufacturing company, Adventure Works Cycles has the following product lines:

- Bicycles that are manufactured at the Adventure Works Cycles Company
- Bicycle components that are replacement parts, such as wheels, pedals, or brake assemblies
- Bicycle apparel and accessories that is purchased from vendors for resale to Adventure Works Cycles customers

3. Studying the Database

On iLEAP, you will find AdventureWorks schema. You may take a print out of the same on several pages, paste it all together to get a complete picture and study the database. Make sure you only print out those tables which are actually getting used in the database. This you will know by finding out the tables under AdventureWorks in SQL Server Management Studio