



SSAS - SQL SERVER ANALYSIS SERVICES

Course Duration: 10 Hours

Mode of training: Class Room

SSAS – BASICS

- INTRODUCTION TO OLAP
- FROM PIVOT TABLES TO DIMENSIONAL PROCESSING
- DATA WAREHOUSING
- APPLICATIONS OF OLAP
- HISTORY OF OLAP
- DATA MINING

CUBES, DIMENSIONS, AND MEASURES

- CUBES AND THEIR COMPONENTS
- DEFINING MEASURES AND DIMENSIONS
- SCHEMAS
- DIMENSIONS IN DEPT
- MEASURES
- TYPES OF AGGREGATION

MULTIDIMENSIONAL EXPRESSIONS

DATA WAREHOUSES STORAGE

- STAGING DATABASES
- STORAGE MODES

SERVER ANALYSIS SERVICES

REQUIREMENTS

- HARDWARE
- VIRTUALIZATION
- SOFTWARE
- UPGRADING
- STANDARD OR ENTERPRISE EDITION

CUBE STRUCTURE IN SSAS

- DATA SOURCES
- DATA SOURCE VIEW
- THE CUBE STRUCTURE ITSELF
- DIMENSIONS
- MININGSTRUCTURES
- PERFORMANCE
- TOOLS

CREATING A DATA SOURCE VIEW

- CUBES NEED DATA
- DATA SOURCES
- DATA SOURCE VIEWS
 - ❖ DESIGNING
 - ❖ NAMED CALCULATIONS AND QUERIES

CREATING DIMENSIONS

DIMENSIONAL ANALYSIS

- REVIEW OF THE DIMENSION CONCEPT
- STAR OR SNOWFLAKE?

DIMENSIONS IN SSAS

- CREATING A DIMENSION
- ANALYSIS MANAGEMENT OBJECTS
- DIMENSION PROPERTIES

ATTRIBUTES

- ATTRIBUTE RELATIONSHIPS
- ATTRIBUTE PROPERTIES

PARENT-CHILD DIMENSIONS

THE TIME DIMENSIONS

MDX

WHY THE NEED?

TUPLES AND SETS

- NOTATION
- TUPLES
- SETS

MDX QUERIES

- SELECT
- WHERE
- MDX FUNCTIONS
- CATEGORIES OF FUNCTIONS

BUILDING A CUBE

DIMENSIONS AND CUBES

- CREATING CUBES
- USING MEASURE GROUP TABLES
- SELECTING DIMENSIONS
- DEFINING DIMENSION USAGE

MEASURES AND MEASURE GROUPS

- MEASURES
- MEASURE GROUPS
- CALCULATED MEASURES

DEPLOYING AND PROCESSING

DEPLOYING A PROJECT

- PROJECT PROPERTIES
- DEPLOYMENT

USING THE DEPLOYMENT WIZARD

- RUNNING THE WIZARD
- INPUT FILES
- DEPLOYMENT SCRIPTS



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