Cheatography

H2 DATABASE 1 - SQL Cheat Sheet by Hoejlund (Hoejlund) via cheatography.com/45515/cs/13431/

Server Roles	
sysadmin	Role members can perform all activities possible on the Database Engine instance. You specify initial membership of this role when performing installation of the Database Engine feature
server- admin	Role members can perform instance-wide config- uration tasks. Members of this role can shut down the instance
securi- tyadmin	Assign this role to logins that must be able to manage instance-level permissions
proces- sadmin	Role members can terminate processes running on a Database Engine instance.
setupadmin	Role members can add linked servers to and remove linked servers from the Database Engine instance.
bulkadmin	Assign this role to logins that you want to allow to use the BULK INSERT statement on databases hosted on an instance.
diskadmin	Role members can manage instance-related files
dbcreator	Role members are able to create, alter, drop, and restore databases hosted on the Database Engine instance
public	All SQL Server logins are members of this role.

Installation of SQL Server					
Feature Selection	Database Engine Services	Includes the Database Engine, the core service for storing.			
Installation	New SQL Server stand alone	Installing the final SQL Server in a non-clustered enviroment			
Setup Support Rukes	Status of rules	should pass all the rules			
Instance Config- uration	Default Instance	Choose the default instance configuration			
Engine Config- uration	Specify Server Admins	add a new or current user			

Installation of SQL Server (cont)

Engine	Authentic-	Choosing Mixed Mode - and
Configuration	ation Mode	setting up password

Monitoring Tools		
SQL Server Profiler	tracks engine process events, such as the start of a batch or a transaction	
Distri- buted Replay	use multiple computers to replay trace data, simulating a mission-critical workload.	
System Monitor	primarily tracks resource usage	
Activity Monitor	displays information about: Processes running, Blocked processes, Locks, User activity.	
Transa- ct-SQL	Transact-SQL stored procedures that create, filter, and define tracing:	
Error logs	The Windows application event log provides an overall picture of events occurring on the Windows Server	

Date data types datetime From January 1, 1753 to December 31, 9999 smalld From January 1, 1900 to June 6, 2079 atetime Store a date only. date Store a date only. time Store a time only to an accuracy of 100 nanoseconds

Setup of AD Sever			
ADDS			
DHCP			
DNS			
System Databases			
Master	Records all the system-level information for an instance of SQL Server.		
Model	Is used as the template for all databases		
MSDB	MSDB Is used by SQL Server Agent for scheduling alerts and jobs.		
TEMPDB Is a workspace for holding temporary objects or interr			

ediate result sets.



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String data types			Designing the Installation	
char(n)	Fixed width character string	8,000 characters	Database Engine Services	Provides the core service for storing, processing, and securing data
varchar(n)	Variable width character string	8,000 characters	SQL Server Replication	Allows for copying and distributing data and database objects from one database to another
varcha- r(max)	Variable width character string	1,073,741,824 characters	Full-Text and Semantic Extractions For Search	Supports Full-Text Extraction for fast text search
text	Variable width character string	2GB of text data		
nchar	Fixed width Unicode string	4,000 characters	Data Quality Services	Facilitates both computer-assisted and interactive methods of managing data source quality and integrity
nvarchar	Variable width Unicode string	4,000 characters		
nvarch- ar(max)	Variable width Unicode string	536,870,912 characters	Analysis Services	Supports online analytical processing (OLAP) and data mining
ntext	Variable width Unicode string	2GB of text data	Reporting Services – Native	Facilitates the creation, management, and delivery of reports through email and interactive web-based formats
binary(n)	Fixed width binary string	8,000 bytes	Reporting	Integrates report viewing and management
varbinary	Variable width binary string	8,000 bytes	Services –	through SharePoint.
varbinary-	Variable width binary string	2GB	SharePoint	C C C C C C C C C C C C C C C C C C C
(max)			Reporting	Provides management and user interfaces that
image	Variable width binary string	2GB	Services Add-in	allow integration between SharePoint and SQL Server Reporting Services (SSRS).
List of relational databases			Data Quality	Interacts with data source quality and integrity

Client

services

Oracle

MySQL

Microsoft SQL Server

PostgreSQL

IBM DB2

A relational database management system, is a database management system that is based on the relational model.

Relational databases have often replaced legacy hierarchical databases and network databases because they are easier to understand and use.



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