

## H2 DATABASE 1 - SQL Cheat Sheet

by Hoejlund (Hoejlund) via cheatography.com/45515/cs/13431/

Installation of SQL Server (cont)

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 configuration 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 environment
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

Engine Configurat	ion	Authentic- ation Mode	Choosing Mixed Mode - and setting up password
	1011		
Monitoring	Tool	s	
SQL Server Profiler		ks engine proces ch or a transactio	ss events, such as the start of a
Distri- buted Replay		multiple comput sion-critical work	ers to replay trace data, simulating a load.
System Monitor	prin	narily tracks reso	urce usage
Activity Monitor		olays information cesses, Locks, U	about: Processes running, Blocked ser activity.
Transa- ct-SQL		nsact-SQL stored ne tracing:	d procedures that create, filter, and
Error logs			ation event log provides an overall curring on the Windows Server

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

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	Is used by SQL Server Agent for scheduling alerts and jobs.	
TEMPDB	Is a workspace for holding temporary objects or intermediate result sets.	



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String data typ	es	
char(n)	Fixed width character string	8,000 characters
varchar(n)	Variable width character string	8,000 characters
varcha- r(max)	Variable width character string	1,073,741,824 characters
text	Variable width character string	2GB of text data
nchar	Fixed width Unicode string	4,000 characters
nvarchar	Variable width Unicode string	4,000 characters
nvarch- ar(max)	Variable width Unicode string	536,870,912 characters
ntext	Variable width Unicode string	2GB of text data
binary(n)	Fixed width binary string	8,000 bytes
varbinary	Variable width binary string	8,000 bytes
varbinary- (max)	Variable width binary string	2GB
image	Variable width binary string	2GB

image	Variable width binary string	2GB
List of relation	al databases	
Oracle		
MySQL		
Microsoft SQL	Server	
PostgreSQL		
IBM DB2		
A relational database management system, is a database		
management	system that is based on the rel	ational model.

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

Designing the Installation		
Database Engine Services	Provides the core service for storing, processing, and securing data	
SQL Server Replication	Allows for copying and distributing data and database objects from one database to another	
Full-Text and Semantic Extractions For Search	Supports Full-Text Extraction for fast text search	
Data Quality Services	Facilitates both computer-assisted and interactive methods of managing data source quality and integrity	
Analysis Services	Supports online analytical processing (OLAP) and data mining	
Reporting Services – Native	Facilitates the creation, management, and delivery of reports through email and interactive web-based formats	
Reporting Services – SharePoint	Integrates report viewing and management through SharePoint.	
Reporting Services Add-in	Provides management and user interfaces that allow integration between SharePoint and SQL Server Reporting Services (SSRS).	
Data Quality Client	Interacts with data source quality and integrity services	



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