

## H2 DATABASE 1 - SQL Cheat Sheet

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

datetime

date

time

ADDS DHCP DNS

smalldatetime

Setup of AD Sever

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
serveradmi n	Role members can perform instance-wide configuration tasks. Members of this role can shut down the instance
securityad min	Assign this role to logins that must be able to manage instance-level permissions
processad min	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 Configuration	Default Instance	Choose the default instance configuration
Engine Configuration	Specify Server Admins	add a new or current user

Engine Configuration	Authentication on Mode	Choosing Mixed Mode - and setting up password
Monitoring	j Tools	
SQL Server Profiler	tracks engine process of a transaction	events, such as the start of a batch or
Distribute d Replay	use multiple computers to replay trace data, simulating a mission-critical workload.	
System Monitor	primarily tracks resource	e usage
Activity Monitor	displays information ab	out: Processes running, Blocked r activity.
Transact-	Transact-SQL stored podefine tracing:	rocedures that create, filter, and
Error logs	• • • • • • • • • • • • • • • • • • • •	on event log provides an overall ring on the Windows Server
Date data	types	

From January 1, 1753 to December 31, 9999

Store a time only to an accuracy of 100 nanoseconds

From January 1, 1900 to June 6, 2079

Store a date only.

Installation of SQL Server		
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Engine	Specify Server	add a new or current user

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 types		
char(n)	Fixed width character string	8,000 characters
varchar(n)	Variable width character string	8,000 characters
varchar(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
nvarchar(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

List of relational databases
Oracle
MySQL
Microsoft SQL Server
PostgreSQL
IBM DB2
A relational database management system, is a database management

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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system that is based on the relational model.

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