

SQL server Cheat Sheet by RuneHansen via cheatography.com/67523/cs/16986/

Information:	
Data	Data is information which comes in different types. Like Names, Age or height.
Database	Database is used to store data Systematically, which also makes it easier to handle a lot of data. It is also known as a logical world.
Database Mangement System	4 Types - Hierachichal, Network, Relational and Object Oriented (which is the some used to save data in TABLE format).
Structured Query Language (SQL)	SQL can be used to INSERT, SEARCH, UPDATE and DELETE database records. SQL also helps optimizing and maintaining databases.

System		format).	
Structured Query Language (SQL)		SQL can be used to INSERT, SEARCH, UPDATE and DELETE database records. SQL also helps optimizing and maintaining databases.	
Instal	lation		
Step 1.	installin	"SQL Server Installation Center", through an ISO. Before grun, "System configuration Checker", to make sure you have any block in installing the software.	
Step 2.	After test run, go to "installation tab" choose "New SQL stand-alone" to get a complete new SQL Server or the possibility to change existing SQL server.		
Step 3.	Ŭ	n setup, make sure to add an administrative account, to your SQL server.	
Step 4.	You will	now have the proper SQL features and application d.	
SQL Server Tools:			

Installation (cont)			
Server manager configurati n	Contains many settings like Network configuration settings. used for establishing the services that we expect to be running while the server is up are actually running.		
SQL Server Manageme Studio			
Server roles			
Sysadmin	Can perform all activities on the database Engine instance.		
Serverad min	Members can perform instance-wide configuration tasks.		
Securityad min	Manage instance-level permissions.		
Processad min	Can terminate processes running on a database		
Setupadmi n	Can add/remove linked servers from the database.		
Bulkadmin	Allow the use of BULK INSERT statement on databases hosted on an instance.		
Diskadmin	Members can manage instance related files.		
Dbcreator	Create, alter, drop and restore databases hosted in an		

Database roles	
DBowner	Allow all database configuration and management task.
DBsecurityad min	allow the management on membership of fixed and flexible database-level-roles.
DBaccessad min	assign to security principals, who needs to manage database access for logins.
DBbackupop erator	allows backup role.
DBddladmin	Be able to run any data definition language (DDL) command in the database

All logins are members of this role.

instance.

Public



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Database roles (cont)		
DBdatawriter	allow modification on a user's Table such as "insert" and "delete".	
DBdatareader	Allow the user to read all data from user tables.	
DBdenydatawri ter	Deny inserting, altering or deleting data from a database's user tables.	
DBdenydatarea der	deny a user to read data stored within a database's user tables.	

Requirements:

Software:	Hardware:
Net 3.5 SP1 is a requirement for SQL Server 2012	- SQL server 2012 requires minimum 6 GB HDD
Net 4.0 is a requirement that will be installed automatically during feature Installation Step.	- Super VGA (800x600) or Higher resolution
- Powershell is a requirement	- Minimum Ram 512 MB, recommended 1 GB (for Express edition) - 1 GB, 4 GB recommended (all other editions)
- Internet explorer 7 or later versions.	- Minimum Processor speed X86 Processor (1.0 GHz), x64 Processor (1.4 GHz) Recommended 2.0 GHz or faster.

4 types of system databases

Master database

- Most important out of the four databases.
- Contains system level information for the instance you're in
- Holds information of other databases you create.
- Contains the initialization information for the SQL server, without it, the instance can't start.

Model Database

- Act as a template for any database added to your instance
- All settings, objects, tables and basically all changes will be added to all databases you create.

4 types of system databases (cont)

Msdb - Management system database, has multiple jobs

- Tracks the SQ server agent which is used to shut your regular jobs like regular backups or data import/export jobs.
- List all the backups and restores done in the instance.
- Take regular backups of this database that it contains valuable information

Tempdb - Holds all temporary objects, created by you and by the database itself

- It will delete all changes and objects when the instance gets restarted

restarted.	
Useful SQL Commands	
Requesting a single column:	SELECT "Columnname"
With ", " you can add more	FROM "Tablename"
Request All	SELECT *
	FROM "Tabel-name"
writing to Tabel	INSERT INTO "tabelname"
	VALUES ("Write the value of a given Column)
Selective search	SELECT "Columnname"
	FROM "Tabelname"
	WHERE "Columnname" = "Value in column"
Creating Tabel	CREATE TABEL "tabelname"
Delete option	DELETE FROM "tabelname"
	WHERE "value"



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