

# Wichtige (My) SQL-Befehle im Überblick

mysql.exe -u user -h host [-t] -ppassword [< in.file] [> out.file]

DDL	①	DROP DATABASE [IF EXISTS] database;		
	②	DROP TABLE [IF EXISTS] tab;		
DDL	①	CREATE DATABASE [IF NOT EXISTS] database;		
	②	CREATE TABLE [IF NOT EXISTS] tab (	<div>wichtige Datentypen</div> <div>CHAR(m) / VARCHAR(m)</div> <div>INT / DECIMAL(L,N)</div> <div>DATE / TIME / DATETIME</div> <div>TIMESTAMP</div> <div>ENUM('val<sub>1</sub>', 'val<sub>2</sub>', ...)</div> <div>SET('val<sub>1</sub>', 'val<sub>2</sub>', ...)</div> <div>wichtige Eigenschaften</div> <div>NULL / NOT NULL / DEFAULT</div> <div>UNSIGNED /AUTO_INCREMENT</div>	
	③	col <sub>1</sub> Datentyp [Eigenschaften],		
	④	col <sub>2</sub> Datentyp [Eigenschaften],		
	⑤	:		
	⑥	PRIMARY KEY(col [,col...]),		
	⑦	[UNIQUE (col [,col...]),]		
	⑧	[INDEX (col [,col...]),]		
	⑨	[FOREIGN KEY(col) REFERENCES tab(col)]		
	⑩	) [Engine = Tabellentyp];		
	⑪	CREATE [TEMPORARY] TABLE tab <sub>T</sub> SELECT col <sub>1</sub> ,col <sub>1</sub> , ... FROM tab ;		
DDL	①	ALTER TABLE tab ADD col <sub>new</sub> Datentyp [Eigenschaften];		
	②	ALTER TABLE tab DROP col;		
	③	ALTER TABLE tab CHANGE col <sub>old</sub> col <sub>new</sub> Datentyp [Eigenschaften];		
DQL	①	SELECT col <sub>1</sub> [,col <sub>2</sub> ... ][,AS Aliasname][,Funktionen][,Berechnung(en)]		
	②	FROM tab   tab <sub>1</sub> ,tab <sub>2</sub>   tab <sub>1</sub> INNER LEFT JOIN tab <sub>2</sub> ON tab <sub>1</sub> .col = tab <sub>2</sub> .col		
	③	[WHERE Datensatz-Restriktion(en)]		
	④	[GROUP BY col [,col ...] [HAVING Restriktion ]]		
	⑤	[ORDER BY col ASC DESC [,col ASC DESC, ... ]]		
	⑥	[LIMIT Anfang , Anzahl ];		
DML	①	INSERT INTO tab(col <sub>1</sub> , ... ,col <sub>n</sub> )		
	②	VALUES (val <sub>1</sub> ,...,val <sub>n</sub> )[, (val <sub>21</sub> ,...,val <sub>2n</sub> ) ,..., (val <sub>21</sub> ,...,val <sub>2n</sub> )];		
	③	INSERT INTO tab <sub>1</sub> (col <sub>1</sub> ,col <sub>2</sub> , ...) SELECT col <sub>A</sub> ,col <sub>B</sub> , ... FROM tab <sub>A</sub> ;		
	④	LOAD DATA LOCAL INFILE 'datei' INTO TABLE tab [(col <sub>1</sub> ,col <sub>2</sub> , ... )]		
	⑤	[FIELDS TERMINATED BY 'char'] [LINES TERMINATED BY 'char'];		
	①	UPDATE tab SET col <sub>1</sub> =val <sub>1</sub> [,col <sub>2</sub> =val <sub>2</sub> , ...] [WHERE Datensatz-Restriktion(en)];		
DML	①	DELETE FROM tab [WHERE Datensatz-Restriktion(en)];		
	②	DELETE tab <sub>1</sub> , tab <sub>2</sub> FROM tab <sub>1</sub> , tab <sub>2</sub> , tab <sub>3</sub> [WHERE Datensatz-Restriktion(en)];		
DQL/ DML		WHERE...	Überblick möglicher Datensatz-Restriktion(en)	
	①	mathem.	...col <sub>1</sub> math. OP col <sub>2</sub> / col math. OP val	Beschreibung der Operatoren
	②	boolsche	...Bedingung <sub>1</sub> bool. OP Bedingung <sub>2</sub>	
	③	NULL	...col IS [NOT] NULL	
	④	Muster	...col [NOT] LIKE 'Muster'	weitere Funktionen (auch in Projektion verwendbar)
	⑤	Elemente	...col [NOT] IN(val <sub>1</sub> , val <sub>2</sub> ,... val <sub>n</sub> )	
	⑥	Bereich	...col [NOT] BETWEEN val <sub>MIN</sub> AND val <sub>MAX</sub>	
			ISNULL (exp) / IFNULL (exp <sub>1</sub> , exp <sub>2</sub> ) IF ( Bedingung , Dann , Sonst )	
DCL	①	GRANT was ON wofür TO wem@woher IDENTIFIED BY [PASSWORD] 'password' ;		
	②	SET PASSWORD [FOR user] = PASSWORD ('password');		
	③	SET @var = val; SELECT @var := col FROM tab WHERE ... [LIMIT x,1];		
	①	SQL-Kommentar /* Kommentar (mehrzeilig) */ bzw. -- Kommentar bis Zeilenende		
	②	MySQL /*! nicht für MySQL */ /*!32302 nicht für MySQL ab Ver.3.23.02 */		