

1 SQL – rychlý souhrn

- Zopakování

1.1 Instalace serveru

- MySQL
- XAMPP

1.2 SELECT

```
SELECT <co> FROM <odkud>;
```

```
SELECT * FROM tabulka
```

```
SELECT * FROM databáze.tabulka
```

```
SELECT sloupec1, sloupec 2, ... FROM tabulka 1, tabulka 2, ...
```

1.2.1 Podmínky

```
SELECT ... FROM ... WHERE podmínka
```

...

1.2.2 Operátory atd.

```
podmínka1 AND podmínka2
```

```
podmínka1 OR podmínka2
```

```
operátory
```

```
> < <> != >= <=
```

,

```
pole = hodnota
```

```
hodnota <> hodnota
```

```
hodnota != hodnota
```

```
pole LIKE 'hodnota _ %'
```

```
pole IS NULL
```

```
pole IS NOT NULL
```

```
pole IN (pole1, hodnota2)
```

```
pole1 NOT IN (hodnota1, hodnota2)
```

```
BETWEEN 5 and 6;
```

1.2.3 Řazení

```
SELECT ... FROM ... WHERE podmínka ORDER BY pole1, pole2
```

```
DESC / ASC
```

1.2.4 Unikátní

```
SELECT DISTINCT ...
```

1.2.5 Seskupování

```
... GROUP BY pole
```

1.3 SELECT spojování tabulek

```
t ... tabulka
```

```
SELECT ... FROM t1 JOIN t2 ON t1.id1 = t2.id2 WHERE podmínka
```

```
SELECT ... FROM t1 LEFT JOIN t2 ON t1.id1 = t2.id2 WHERE podmínka
```

```
SELECT ... FROM t1 JOIN (t2 JOIN t3 ON ...) ON ...
```

```
SELECT ... FROM t1 JOIN t2 USING(id) WHERE podmínka
```

```
SELECT ... FROM Tabulka_1 T1, Tabulka_2 T2 WHERE T1.radek = T2.radek;
```

1.4 SELECT poddotazy

```
SELECT * FROM ... WHERE podmínka =
```

```
(SELECT sloupec FROM tabulka WHERE podmika);
```

```
SELECT * FROM tabulka WHERE (poddotaz1(poddotaz2(poddotaz3)));
```

1.5 Tvorba databáze

```
SHOW COLLATION;
```

```
SHOW DATABASES;
```

```
USE databáze;
```

```
SELECT DATABASE();
```

```
CREATE DATABASE ....
```

1.6 Tvorba tabulek

```
SHOW TABLES;
```

```
DESCRIBE db;
```

```
SHOW COLUMNS FROM db;
```

```
CREATE TABLE nazev_tabulky (           nazev_sloupce datovy_typ);
```

```
CHARSET=utf8 COLLATE utf8_czech_ci
```

1.6.1 Klíče

```
..... ENGINE=INNODB;
```

1.6.2 Omezení

```
int(11)
varchar(11)
decimal(9,2)
..
UNIQUE
...
```

1.6.3 Změna tabulek

```
ALTER TABLE `uzivatel_zmeny` RENAME uzivat;
```

1.6.4 Mazání

```
TRUNCATE
DROP
```

1.7 Vkládání, úprava a mazání záznamu

```
INSERT INTO tabulka VALUES (1);
...
UPDATE tabulka SET sloupec_zaznam = 'KK' WHERE id=1;
    ... LIMIT 1;
DELETE FROM tabulka WHERE id = 1;
```

1.8 Uživatelé a práva

```
SHOW GRANTS;
SHOW PRIVILEGES;
```

1.9 Funkce

1.9.1 Agregiční

1.9.2 Matematické a statistické

- + - * / •

1.9.3 Datum a čas

- ADDDATE
- ()

1.9.4 Šifrovací / hashovací

- SHA2 (.....-)

1.9.5 Textové

- ELT (...) • ()
-

1.10 Dočasné tabulky

```
CREATE temporary TABLE `studenti` ( .....)
```

1.11 Pohled

```
SHOW FULL TABLES IN <databaze> WHERE TABLE_TYPE LIKE 'VIEW';
```

1.12 Index

```
SHOW INDEX FROM <tabulka>;
```

....

1.13 Triger

```
SHOW TRIGGERS;
```

```
DROP TRIGGER IF EXISTS <JmenoTrigger>;
```

1.14 Transakce

1.15 Procedury

1.16 UDF Funkce

1.17 Export Import

1.18 Fulltext