

2 SELECT

2.1 SELECT - zdrojová tabulka

2.1.1 Tabulka:

uzivatele_id	jmeno	prijmeni	pohlavi	PLAT	datum_narozeni	mesto	test
1	Jana	Krátka	f	23500	1954-12-22	Brno	0
2	Jana	Nováková	F	42261	2016-11-11	Brno	1
3	Sophia	Santiago	F	20758	1962-11-16	Brno	8
4	Jarek	Benes	M	52483	2017-06-11	Praha	8
5	Petr	Malý	M	10000	2001-09-23	Praha	8
6	Honza	Adamec	M	29990	1977-07-27	Praha	7
7	Petra	Adamcova	F	23500	1982-03-16	Olomouc	6
8	Zuzka	Bezva	F	39752	2016-02-29	Ostrava	7
9	Ivan	Sobota	M	15274	1900-02-01	Pardubice	3
10	Petr	Novak	M	27679	2002-05-20	Zlin	2
11	Jirka	Plavec	M	23500	2017-12-30	Opava	1
12	Iva	Nováková	F	25371	2007-06-07	Opava	0
13	Ivan	Kurzo	M	10000	2018-02-22	Ostrava	7
14	Petr	Novak	M	21072	2011-06-15	Pardubice	7
15	Iva	Nováková	F	23181	1994-02-13	Brno	8
16	Ela	Nová	F	23500	1987-12-14	Brno	5
17	Jan	Novák	M	49213	1979-08-19	Brno	2
18	petr	novak	M	18638	1960-11-18	Brno	2
19	Tom	Krejza	M	21086	2017-09-24	Brno	3
20	Ida	Krejzova	F	54032	2017-04-03	Brno	5
21	Pavel		M	23500	2014-03-14	Brno	7
22	Jakub	Nedelka	M	50900	2017-05-16	Praha	3
23	Zuzka	Lesní	F	49956	2001-09-23	Brno	2
24	Zuzana	Jarní	F	10000	2001-09-23	Brno	1
25	Ela	Melera	F	10000	1994-02-13	Brno	0

2.1.2 Co budeme chtít z tabulky získat? Proč?

2.2 SELECT – syntaxe

Syntaxe

SELECT

```
[ALL | DISTINCT | DISTINCTROW ]
  [HIGH_PRIORITY]
  [MAX_STATEMENT_TIME = N]
  [STRAIGHT_JOIN]
  [SQL_SMALL_RESULT] [SQL_BIG_RESULT] [SQL_BUFFER_RESULT]
  [SQL_CACHE | SQL_NO_CACHE] [SQL_CALC_FOUND_ROWS]
select_expr [, select_expr ...]
[FROM table_references
  [PARTITION partition_list]
[WHERE where_condition]
[GROUP BY {col_name | expr | position}
  [ASC | DESC], ... [WITH ROLLUP]]
[HAVING where_condition]
[ORDER BY {col_name | expr | position}
  [ASC | DESC], ...]
[LIMIT {[offset,] row_count | row_count OFFSET offset}]
[PROCEDURE procedure_name(argument_list)]
[INTO OUTFILE 'file_name'
  [CHARACTER SET charset_name]
  export_options
 | INTO DUMPFILE 'file_name'
 | INTO var_name [, var_name]]
[FOR UPDATE | LOCK IN SHARE MODE]]
```

Začneme od základu se syntaxí a budeme přidávat

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

Problémy:

```
SELECT *;
SELECT * FROM studenti;
```

2.3 Podklady k procvičení

```
SELECT * FROM tabulka
SELECT * FROM databáze.tabulka
SELECT sloupec1, sloupec 2, ... FROM tabulka 1, tabulka 2, ...
SELECT sloupec1, sloupec 2 AS název, ... FROM tabulka
SELECT ... FROM ... WHERE podmínka
SELECT ... FROM ... WHERE podmínka GROUP BY pole
SELECT ... FROM ... WHERE podmínka GROUP BY pole HAVING podmínka2
SELECT ... FROM ... WHERE podmínka ORDER BY pole1, pole2
SELECT ... FROM ... WHERE podmínka ORDER BY pole1, pole2 DESC / ASC
SELECT ... FROM ... WHERE podmínka LIMIT 10
SELECT DISTINCT pole1 FROM ...
SELECT DISTINCT pole1, pole2 FROM ...
```

```
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)
```

```
SELECT ... FROM ... WHERE podmínka REGEXP hodnota
```

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
```