

Jak na Excel

Obsah cvičení

Kontingenčka Kostla OLAP

OLAP - teorie

Propjení tabulek

Pavel Lasák



Lektor, expert na Microsoft Excel, držitel prestižního ocenění
Microsoftu MVP v České republice

500

Další informace ke cvičení:

<http://office.lasakovi.com/excel/kontingencni-tabulka/serial-kontingencni-tabulky-grafy-excel/>

<http://office.lasakovi.com/excel/kontingencni-tabulka/jedinecna-data-kontingencni-tabulka/>

<http://office.lasakovi.com/excel/kontingencni-tabulka/data-bez-ciselnych-hodnot-kontingencni-tabulka/>

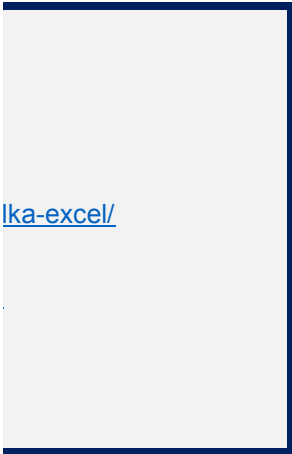
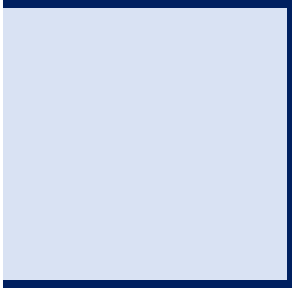
<http://office.lasakovi.com/excel/kontingencni-tabulka/pocitane-pole-kontingencni-tabulka-excel/>

<http://office.lasakovi.com/excel/kontingencni-tabulka/pocitane-polozky-kontingencni-tabulka-excel/>

<http://office.lasakovi.com/excel/kontingencni-tabulka/prurezy-slicers-filtry-kontingencni-tabulka/>

<http://bit.ly/ExcelSeduo>

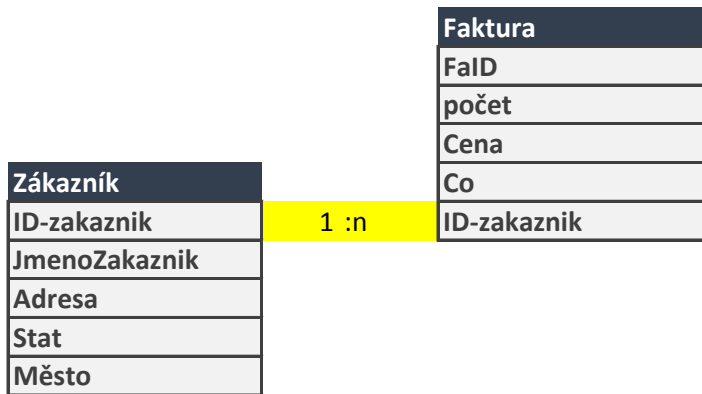
<http://bit.ly/pivotkySeduo>



[lka-excel/](#)

Teorie databáze

<https://office.lasakovi.com/>



Úkol

kontingenčka (pivotka nad daty)

3) Ručně SVYHLEDAT

Schéma hvězdy (STAR SCHEMA)

<http://office.lasakovi.com>

| Zákazník |
|-------------|
| Id_Zákazník |
| Jméno |
| Adresa |
| Typ |
| Poznámka |

| Lokalita |
|-------------|
| Id_Lokalita |
| Město |
| Stát |
| Prodejna |
| Poznámka |

| Prodeje |
|--------------|
| Id_Cas_nakup |
| Id_Lokalita |
| Id_Automobil |
| Id_Zákazník |
| Id_Dodavatel |
| Cena |
| Počet |
| Poznámka |

| Dodavatel |
|--------------|
| Id_Dodavatel |
| Město |
| Název |

| Automobil |
|--------------|
| Id_Automobil |
| Značka |
| Typ |
| Rok výroby |
| VIN |
| .. |

| Čas nákup |
|--------------|
| Id_Cas_nakup |
| Rok |
| Kvartál |
| Měsíc |
| Týden |
| Den |

Schéma sněžová vložka

<http://office.lasakovi.com>

| Automobil |
|-----------|
| |
| |
| |
| |
| |

| Nakup |
|-------|
| |
| |
| |
| |
| |
| |

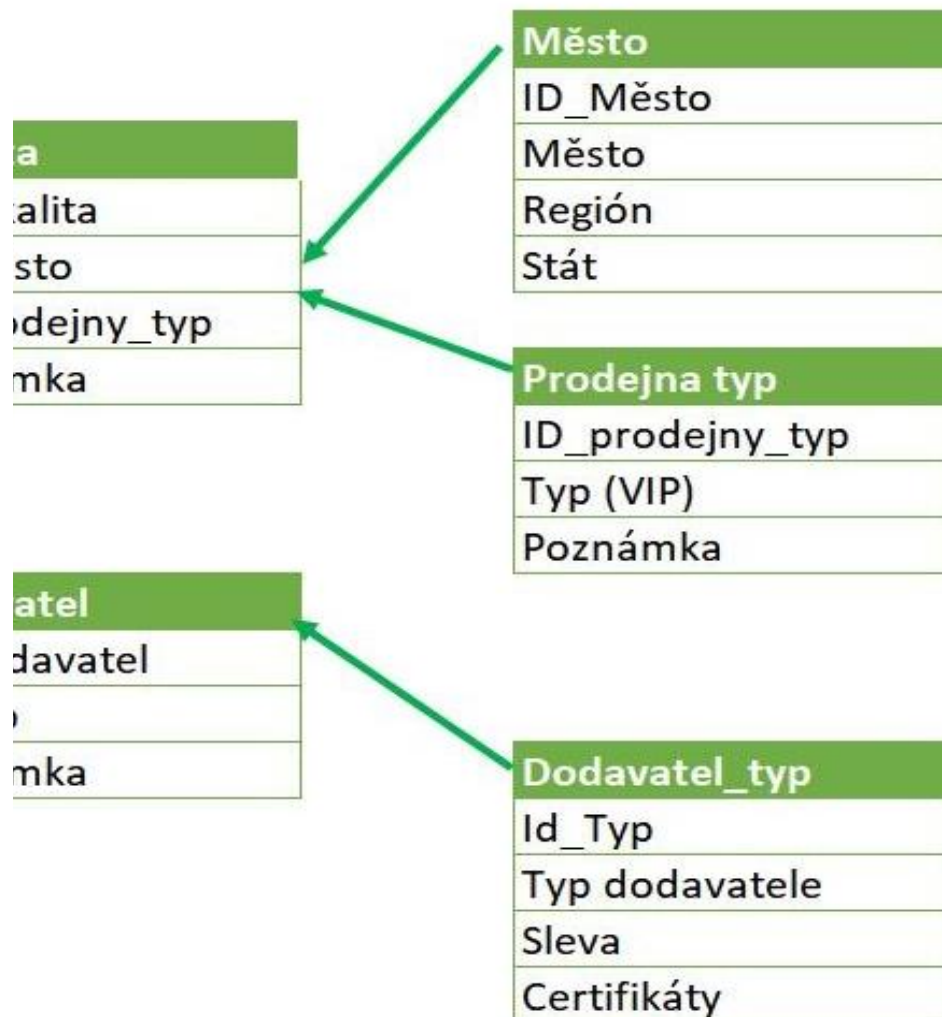
| Prodeje |
|--------------|
| Id_Cas_nakup |
| Id_Lokalita |
| Id_Automobil |
| Id_Zákazník |
| Id_Dodavatel |
| Cena |
| Počet |
| Poznámka |

| Lokalita |
|----------|
| Id_Lok |
| Id_Mě |
| ID_Pro |
| Poznár |

| Dodavatel |
|-----------|
| Id_Doc |
| Id_Typ |
| Poznár |



očka (Snowflake schema)



Křížová tabulka - prodeje ks

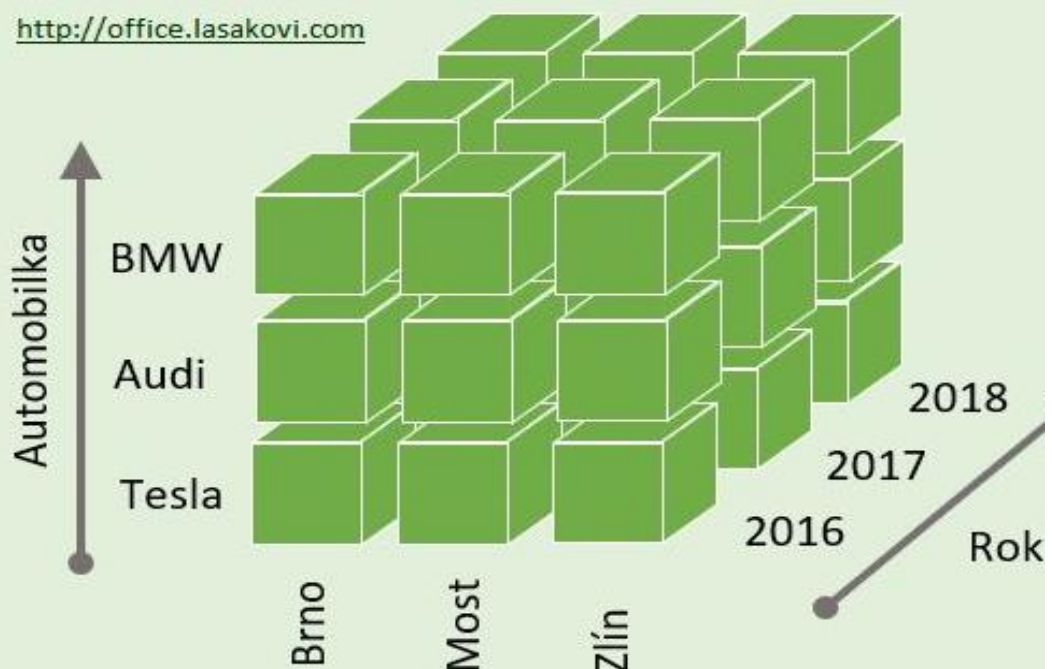
| 2016 | Brno | Most | Zlín |
|-------|------|------|------|
| BMW | | | |
| Audi | | | |
| Tesla | | | |

| 2017 | Brno | Most | Zlín |
|-------|------|------|------|
| BMW | | | |
| Audi | | | |
| Tesla | | | |

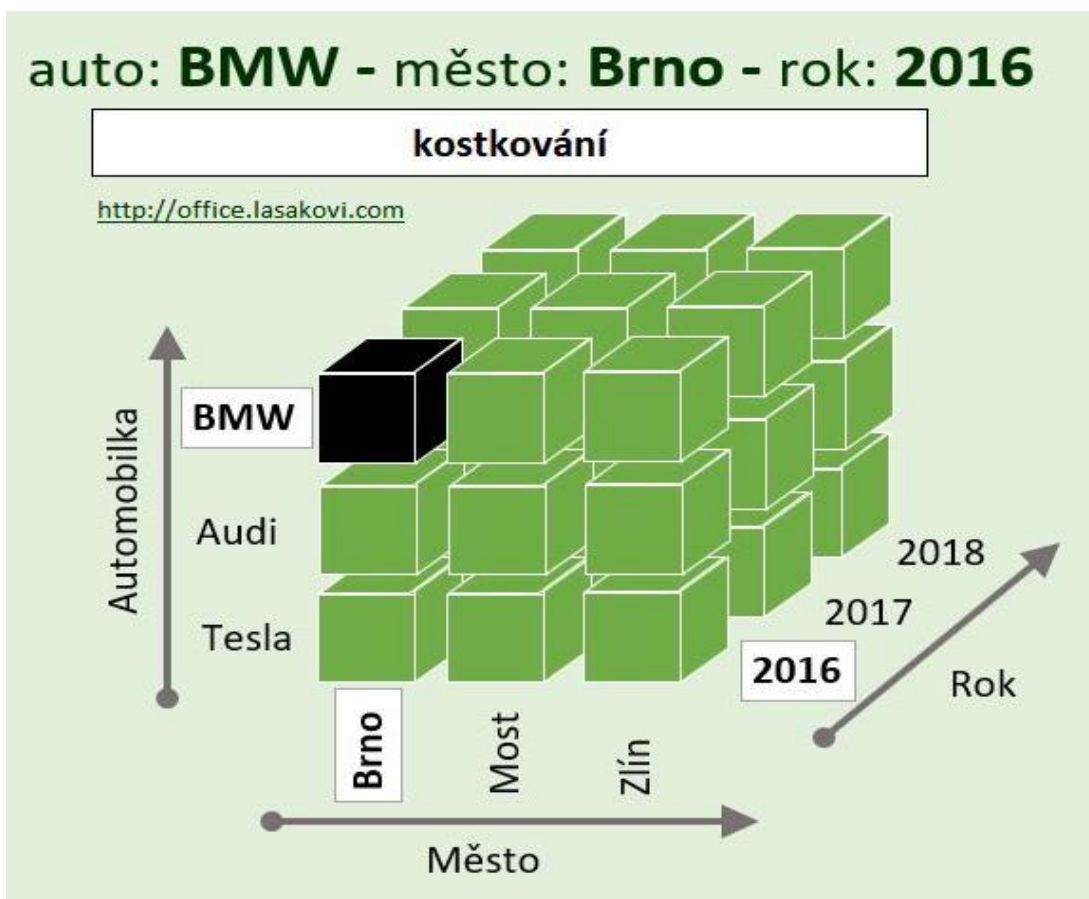
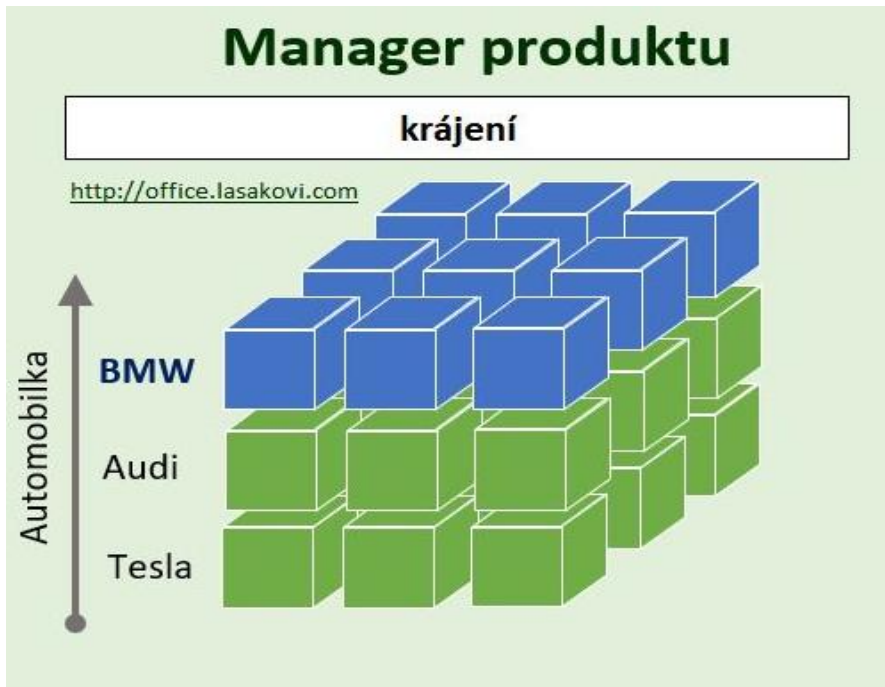
| 2018 | Brno | Most | Zlín |
|-------|------|------|------|
| BMW | 10 | 15 | 9 |
| Audi | 20 | 16 | 8 |
| Tesla | 30 | 17 | 7 |

OLAP kostka

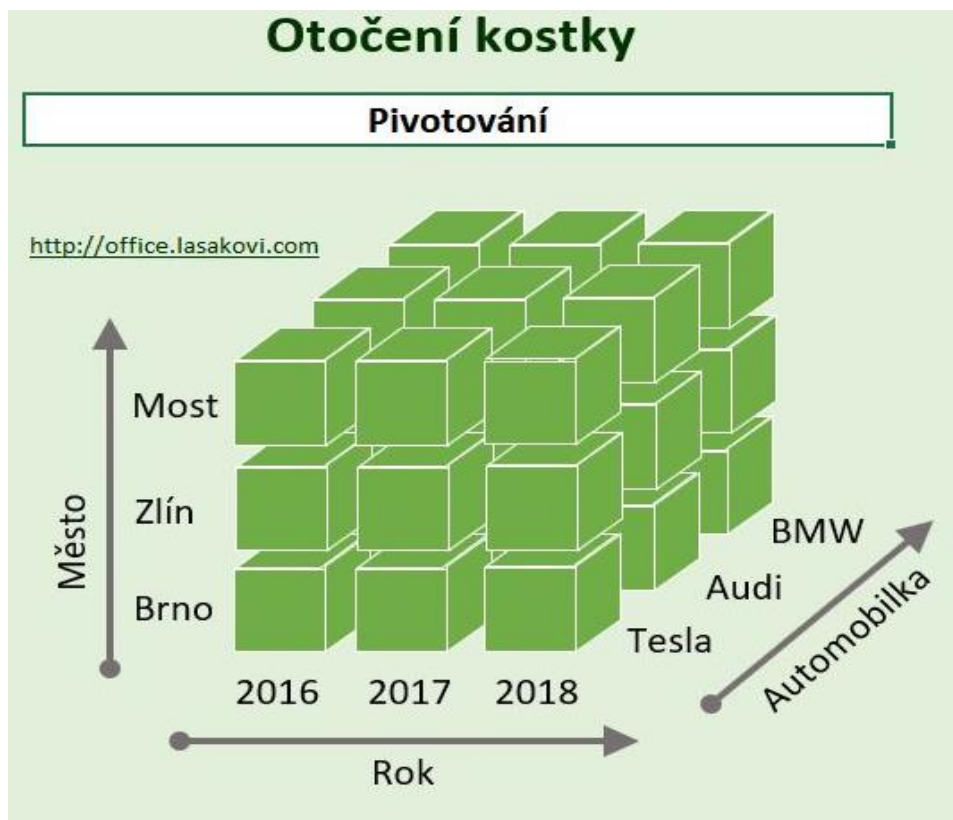
<http://office.lasakovi.com>



Město



Drill



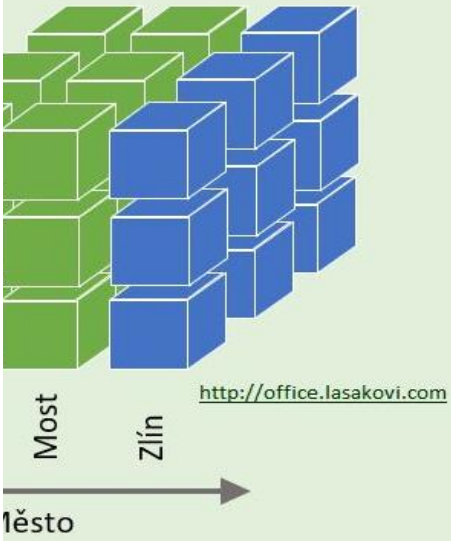
Křížová tabulka - prodeje ks

| Celkové prodeje | | Prodeje |
|-----------------|----|---------|
| BMW | 34 | 132 |
| Audi | 44 | |
| Tesla | 54 | |

| Prodeje | Brno | Most | Zlín |
|--------------|------|------|------|
| BMW | 10 | 15 | 9 |
| Audi | 20 | 16 | 8 |
| Tesla | 30 | 17 | 7 |

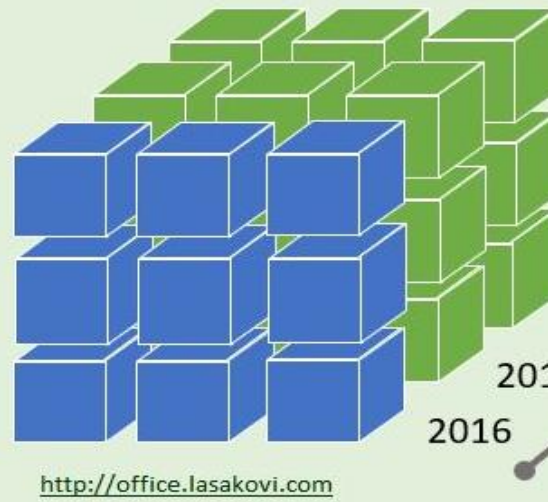
hlavní obchodní zástupce

krájení



Finanční manažer

krájení



er



2018

17



Rok

| IDZakaznik | JmenoZakaznik | Adresa | Stat |
|-------------------|----------------------|------------------------|-------------|
| Z1 | Super firma | 1234 Westown Road | USA |
| Z2 | VIP firma | 4321 West Broadway | Canada |
| Z3 | SEDUO | City 123 | Australia |
| Z4 | AAA | 987 Portar Street | New Zealand |
| Z5 | ABB | 8765 58th Street West | USA |
| Z6 | XXX | 987 Union Circle | USA |
| Z7 | CCC | 678 W Orange Ave | USA |
| Z8 | DDD | P.O. Box 1234 | USA |
| Z9 | ZZZ | 234 Hickman St. | USA |
| Z10 | Apppleee | 98765 Crossway Park Dr | USA |
| Z11 | Telemarketing | 12345 21st Ave S | Mexko |
| Z12 | Otravové | 9876 N. Pioneer Road | Mexiko |
| Z13 | Fantomasové | 5678 Fraser Ave N. | Mexiko |
| Z14 | Rákosníčci | 1234 Sunlight Place | Mexiiko |

Mesto

West Des Moines

Montreal

Sydney

Auckland

St. Louis

Lockport

Lafayette

Wichita

Springfield

Bloomington

Lawrence

Gary

Mishawaka

Iowa City

| FAID | pocet | Cenaks | CenaCelkem | Co | IDZakaznik |
|------|-------|---------|------------|--------------|------------|
| FA1 | 1 | 674.5 | 674.5 | výrobek 1 | Z1 |
| FA2 | 25 | 0.16 | | 4 výrobek 3 | Z2 |
| FA3 | 1 | 674.5 | 674.5 | výrobek 4 | Z3 |
| FA4 | 2 | 93.55 | 187.1 | výrobek 5 | Z4 |
| FA5 | 1 | 395.1 | 395.1 | výrobek 6 | Z5 |
| FA6 | 1 | 50.25 | 50.25 | výrobek 7 | Z6 |
| FA7 | 1 | 5.98 | 5.98 | výrobek 2 | Z7 |
| FA8 | 1 | 18.65 | 18.65 | výrobek 10 | Z8 |
| FA9 | 2 | 93.55 | 187.1 | výrobek 11 | Z9 |
| FA10 | 25 | 0.16 | | 4 výrobek 12 | Z10 |
| FA11 | 1 | 674.5 | 674.5 | výrobek 13 | Z11 |
| FA12 | 2 | 115.85 | 231.7 | výrobek 14 | Z12 |
| FA13 | 1 | 91.59 | 91.59 | výrobek 15 | Z13 |
| FA14 | 1 | 149.95 | 149.95 | výrobek 16 | Z14 |
| FA15 | 50 | 91.59 | 4579.5 | výrobek 2 | Z1 |
| FA16 | 1 | 59.29 | 59.29 | výrobek 19 | Z2 |
| FA17 | 3 | 59.5 | 178.5 | výrobek 20 | Z3 |
| FA18 | 2 | 5.98 | 11.96 | výrobek 21 | Z4 |
| FA19 | 1 | 674.5 | 674.5 | výrobek 22 | Z5 |
| FA20 | 1 | 2998.15 | 2998.15 | výrobek 24 | Z6 |
| FA21 | 1 | 674.5 | 674.5 | výrobek 2 | Z7 |
| FA22 | 1 | 3.29 | 3.29 | výrobek 3 | Z8 |
| FA23 | 2 | 3.29 | 6.58 | výrobek 27 | Z9 |
| FA24 | 2 | 1197 | 2394 | výrobek 28 | Z10 |
| FA25 | 1 | 1197 | 1197 | výrobek 2 | Z11 |
| FA26 | 2 | 6921.88 | 13843.76 | výrobek 3 | Z12 |
| FA27 | 1 | 50.25 | 50.25 | výrobek 2 | Z13 |
| FA28 | 3 | 90.25 | 270.75 | výrobek 3 | Z14 |

| FaID | pocet | Cenaks | CenaCelkem | Co | IDZakaznik |
|-----------|-------|---------|------------|------------|------------|
| INV1010 | 1 | 674.5 | 674.5 | výrobek 1 | Z1 |
| INV1018 | 25 | 0.16 | 4 | výrobek 3 | Z2 |
| INV1019 | 1 | 674.5 | 674.5 | výrobek 4 | Z3 |
| INVPS1004 | 2 | 93.55 | 187.1 | výrobek 5 | Z4 |
| INVPS1004 | 1 | 395.1 | 395.1 | výrobek 6 | Z5 |
| INVSP1001 | 1 | 50.25 | 50.25 | výrobek 7 | Z6 |
| INVSP1002 | 1 | 5.98 | 5.98 | výrobek 2 | Z7 |
| ORDPH1004 | 1 | 18.65 | 18.65 | výrobek 10 | Z8 |
| ORDPH1005 | 2 | 93.55 | 187.1 | výrobek 11 | Z9 |
| ORDST1009 | 25 | 0.16 | 4 | výrobek 12 | Z10 |
| ORDST1010 | 1 | 674.5 | 674.5 | výrobek 13 | Z11 |
| ORDST1011 | 2 | 115.85 | 231.7 | výrobek 14 | Z12 |
| ORDST1014 | 1 | 91.59 | 91.59 | výrobek 15 | Z13 |
| ORDST1014 | 1 | 149.95 | 149.95 | výrobek 16 | Z14 |
| ORDST1017 | 50 | 91.59 | 4579.5 | výrobek 2 | Z1 |
| ORDST1021 | 1 | 59.29 | 59.29 | výrobek 19 | Z2 |
| ORDST2008 | 3 | 59.5 | 178.5 | výrobek 20 | Z3 |
| ORDST2009 | 2 | 5.98 | 11.96 | výrobek 21 | Z4 |
| ORDST2013 | 1 | 674.5 | 674.5 | výrobek 22 | Z5 |
| ORDST2021 | 1 | 2998.15 | 2998.15 | výrobek 24 | Z6 |
| ORDST2022 | 1 | 674.5 | 674.5 | výrobek 2 | Z7 |
| ORDST2038 | 1 | 3.29 | 3.29 | výrobek 3 | Z8 |
| ORDST2039 | 2 | 3.29 | 6.58 | výrobek 27 | Z9 |
| ORDST2051 | 2 | 1197 | 2394 | výrobek 28 | Z10 |
| ORDST2052 | 1 | 1197 | 1197 | výrobek 2 | Z11 |
| ORDST2076 | 2 | 6921.88 | 13843.76 | výrobek 3 | Z12 |
| ORDST2077 | 1 | 50.25 | 50.25 | výrobek 2 | Z13 |
| ORDST2089 | 3 | 90.25 | 270.75 | výrobek 3 | Z14 |

| ID | Zakaznik | JmenoZaka | Adresa | Stat | Mesto |
|-----|-------------|-------------|------------|------|-----------------|
| Z1 | Super firma | 1234 West | USA | | West Des Moines |
| Z2 | VIP firma | 4321 West | Canada | | Montreal |
| Z3 | AAA | City 123 | Australia | | Sydney |
| Z4 | BBB | 987 Portar | New Zealar | | Auckland |
| Z5 | ABB | 8765 58th | USA | | St. Louis |
| Z6 | SIMEN | 987 Union | USA | | Lockport |
| Z7 | CCC | 678 W Ora | USA | | Lafayette |
| Z8 | DDD | P.O. Box 12 | USA | | Wichita |
| Z9 | ZZZ | 234 Hickm | USA | | Springfield |
| Z10 | Applelee | 98765 Cros | USA | | Bloomington |
| Z11 | Telemarket | 12345 21st | Mexko | | Lawrence |
| Z12 | Otravové | 9876 N. Pic | Mexiko | | Gary |
| Z13 | Fantomaso | 5678 Frase | Mexiko | | Mishawaka |
| Z14 | Rákosničci | 1234 Sunli | Mexiiko | | Iowa City |
| Z1 | Super firma | 1234 West | USA | | West Des Moines |
| Z2 | VIP firma | 4321 West | Canada | | Montreal |
| Z3 | AAA | City 123 | Australia | | Sydney |
| Z4 | BBB | 987 Portar | New Zealar | | Auckland |
| Z5 | ABB | 8765 58th | USA | | St. Louis |
| Z6 | SIMEN | 987 Union | USA | | Lockport |
| Z7 | CCC | 678 W Ora | USA | | Lafayette |
| Z8 | DDD | P.O. Box 12 | USA | | Wichita |
| Z9 | ZZZ | 234 Hickm | USA | | Springfield |
| Z10 | Applelee | 98765 Cros | USA | | Bloomington |
| Z11 | Telemarket | 12345 21st | Mexko | | Lawrence |
| Z12 | Otravové | 9876 N. Pic | Mexiko | | Gary |
| Z13 | Fantomaso | 5678 Frase | Mexiko | | Mishawaka |
| Z14 | Rákosničci | 1234 Sunli | Mexiiko | | Iowa City |

| IDZakaznik | JmenoZakaznik | Adresa | Stat | Mesto |
|------------|---------------|-------------|------------|-----------------|
| Z1 | Super firma | 1234 West | USA | West Des Moines |
| Z2 | VIP firma | 4321 West | Canada | Montreal |
| Z3 | AAA | City 123 | Australia | Sydney |
| Z4 | BBB | 987 Portar | New Zealar | Auckland |
| Z5 | ABB | 8765 58th | USA | St. Louis |
| Z6 | SIMEN | 987 Union | USA | Lockport |
| Z7 | CCC | 678 W Ora | USA | Lafayette |
| Z8 | DDD | P.O. Box 12 | USA | Wichita |
| Z9 | ZZZ | 234 Hickm | USA | Springfield |
| Z10 | Apppleee | 98765 Cros | USA | Bloomington |
| Z11 | Telemarketing | 12345 21st | Mexko | Lawrence |
| Z12 | Otravové | 9876 N. Pic | Mexiko | Gary |
| Z13 | Fantomasové | 5678 Frase | Mexiko | Mishawaka |
| Z14 | Rákosničci | 1234 Sunli | Mexiiko | Iowa City |

| Popisky řádků | Součet z CenaCelkem |
|-----------------------|---------------------|
| AAA | 853 |
| ABB | 1069.6 |
| Apppleee | 2398 |
| BBB | 199.06 |
| CCC | 680.48 |
| DDD | 21.94 |
| Fantomasové | 141.84 |
| Otravové | 14075.46 |
| Rákosničci | 420.7 |
| SIMEN | 3048.4 |
| Super firma | 5254 |
| Telemarketing | 1871.5 |
| VIP firma | 63.29 |
| ZZZ | 193.68 |
| Celkový součet | 30290.95 |

