

Praktikum 13

Stored Function

Pokok Bahasan

Cursor, Stored Function, and Triggers



A. Tujuan Praktikum

Mahasiswa mampu memahami penggunaan *cursor*, *stored function*, dan *triggers* dalam *database*.

B. Petunjuk Praktikum

1. Simpan seluruh hasil jawaban Anda dalam bentuk txt dengan menggunakan text editor kesayangan anda dengan format

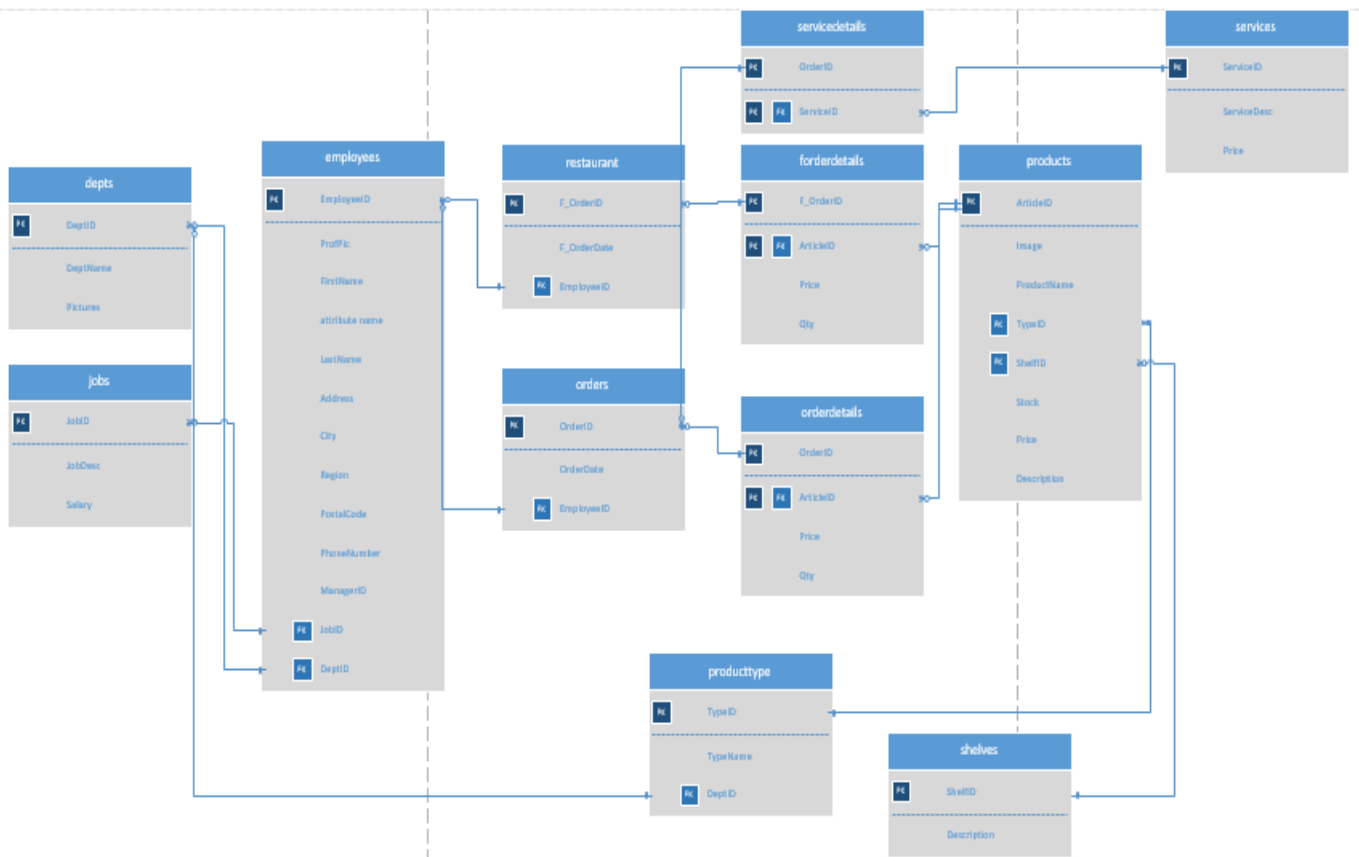
[NIM]_[NAMA]_W13.txt

Contoh : 00000054321_KevinAlex_W13.txt

2. Buat database dengan nama ikea dan masuk ke database tersebut
3. Dilarang Menggunakan phpMyAdmin
4. Lakukan import database dengan command

SOURCE [path file.sql]

Contoh: mysql> SOURCE D:\ikea.sql;



C. Tugas Praktikum

1. Buatlah sebuah *procedure* yang dapat menampilkan hasil pencarian barang berdasarkan namanya yang tersusun alfabetik dan tampilkan pula jumlah data yang ditemukan!

```
mysql> call search_product('shelving');
+-----+
| Search Result |
+-----+
| 3 Data Found  |
|              |
| ALBERT Shelving unit |
| HYLLIS Shelving unit |
| LÄCKÖ Shelving unit  |
+-----+
```

```
mysql> call search_product('sendok');
+-----+
| Search Result |
+-----+
| No Data Found |
+-----+
```

2. Buatlah sebuah *procedure* yang dapat mencari orang dan memnampilkan data seperti di bawah ini!

```
mysql> call search_people('E0001');
+-----+
| Result |
+-----+
| ID Found! |
| Employee ID :E0001 |
| Full Name :Kevin Alexander |
| City :Jakarta |
| Postal Code :10450 |
| Phone Number :0857429157 |
+-----+
```

```
mysql> call search_people('E1000');
+-----+
| Result |
+-----+
| ID Invalid! Pleast Try Again |
+-----+
```

3. Tampilkan tabel dengan menggunakan *function* untuk membuat email khusus untuk ikea(@ikeamail.com)!

```
mysql> select concat(firstname, ' ', lastname) as 'Full Name', email_special(firstname, lastname) as 'Email' from employees;
+-----+-----+
| Full Name | Email |
+-----+-----+
| Kevin Alexander | kevin.alexander@ikeamail.com |
| Ivan Jeremy | ivan.jeremy@ikeamail.com |
| Kevin Padawangi | kevin.padawangi@ikeamail.com |
| Dominicus Owen | dominicus.owen@ikeamail.com |
| Jeremy Evan | jeremy.evan@ikeamail.com |
| Leah Caldwell | leah.caldwell@ikeamail.com |
| Alfredo Cooper | alfredo.cooper@ikeamail.com |
| Camille Edwards | camille.edwards@ikeamail.com |
| Jim Love | jim.love@ikeamail.com |
| Mindy Cannon | mindy.cannon@ikeamail.com |
| Paula Tuckers | paula.tuckers@ikeamail.com |
| Raul Diaz | raul.diaz@ikeamail.com |
| Martha Mills | martha.mills@ikeamail.com |
| Jan Long | jan.long@ikeamail.com |
| Vellma Carr | vellma.carr@ikeamail.com |
| Leticia Hampton | leticia.hampton@ikeamail.com |
| Philip Burns | philip.burns@ikeamail.com |
| Kendra Jonston | kendra.jonston@ikeamail.com |
| Clay Young | clay.young@ikeamail.com |
| Pete Cain | pete.cain@ikeamail.com |
| Ruth Mitchell | ruth.mitchell@ikeamail.com |
| Wilma George | wilma.george@ikeamail.com |
| Aaron Moreno | aaron.moreno@ikeamail.com |
| Ted Stokes | ted.stokes@ikeamail.com |
| Cecil Wade | cecil.wade@ikeamail.com |
| Sue Price | sue.price@ikeamail.com |
| Estelle Burton | estelle.burton@ikeamail.com |
| Santiago Goodwin | santiago.goodwin@ikeamail.com |
| Ignacio Richardson | ignacio.richardson@ikeamail.com |
| Spencer Watts | spencer.watts@ikeamail.com |
| Leah Webber | leah.webber@ikeamail.com |
| Christine Ingram | christine.ingram@ikeamail.com |
| Jenna May | jenna.may@ikeamail.com |
| Audrey Robertson | audrey.robertson@ikeamail.com |
| Mildred Sanders | mildred.sanders@ikeamail.com |
| Cary Santiago | cary.santiago@ikeamail.com |
| Geranld Phelps | geranld.phelps@ikeamail.com |
| Maurice Ford | maurice.ford@ikeamail.com |
| Alice Fields | alice.fields@ikeamail.com |
| Olga Barrett | olga.barrett@ikeamail.com |
| Irma Luna | irma.luna@ikeamail.com |
| Melanie Pierce | melanie.pierce@ikeamail.com |
+-----+-----+
42 rows in set (0.01 sec)
```

4. Buatlah sebuah *trigger* ketika stok produk di-*update*, baik ditambah atau dikurang karena adanya order dari *customer*! (Sebelumnya, buat dulu table *Product_history* seperti contoh di bawah!)

```
mysql> update products set stock = 40 where articleid = '999.322.72';
Query OK, 1 row affected (0.12 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from product_history;
+-----+-----+-----+-----+-----+
| articleid | productname | stock | stock_changes | update_date |
+-----+-----+-----+-----+-----+
| 999.322.72 | ALGOT Wall upright/basket | 50 | -10 | 2017-01-26 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

mysql> update products set stock = 60 where articleid = '999.318.09';
Query OK, 1 row affected (0.07 sec)
Rows matched: 1 Changed: 1 Warnings: 0

mysql> select * from product_history;
+-----+-----+-----+-----+-----+
| articleid | productname | stock | stock_changes | update_date |
+-----+-----+-----+-----+-----+
| 999.318.09 | KLASEN Charcoal barbecue with trolley | 50 | 10 | 2017-01-26 |
| 999.322.72 | ALGOT Wall upright/basket | 50 | -10 | 2017-01-26 |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)
```