

Pengerjaan Jobsheet 2

Mata Kuliah: Data Warehouse

Database Operasional

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Server: localhost:3306

Databases SQL Status User accounts Export Import Settings More

Import has been successfully finished, 26 queries executed. (mysqlsampledatabse.sql)

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0095 seconds.)

/* Name: MySQL Sample Database classicmodels Link: <http://www.mysqltutorial.org/mysql-sample-database.aspx> */ /* Create the database */ `CREATE DATABASE IF NOT EXISTS classicmodels;`

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0003 seconds.)

/* Switch to the classicmodels database */ `USE classicmodels;`

[Edit inline] [Edit] [Create PHP code]

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0069 seconds.)

/* Drop existing tables */ `DROP TABLE IF EXISTS productlines;`

[Edit inline] [Edit] [Create PHP code]

Note: #1051 Unknown table 'classicmodels.productlines'

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0054 seconds.)

`DROP TABLE IF EXISTS products;`

[Edit inline] [Edit] [Create PHP code]

Note: #1051 Unknown table 'classicmodels.products'

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0053 seconds.)

`DROP TABLE IF EXISTS offices;`

[Edit inline] [Edit] [Create PHP code]

Note: #1051 Unknown table 'classicmodels.offices'

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0056 seconds.)

`DROP TABLE IF EXISTS employees;`

[Edit inline] [Edit] [Create PHP code]

Note: #1051 Unknown table 'classicmodels.employees'

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0053 seconds.)

`DROP TABLE IF EXISTS customers;`

[Edit inline] [Edit] [Create PHP code]

Note: #1051 Unknown table 'classicmodels.customers'

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0059 seconds.)

`DROP TABLE IF EXISTS payments;`

[Edit inline] [Edit] [Create PHP code]

Note: #1051 Unknown table 'classicmodels.payments'

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0047 seconds.)

`DROP TABLE IF EXISTS orders;`

[Edit inline] [Edit] [Create PHP code]

Note: #1051 Unknown table 'classicmodels.orders'

MySQL returned an empty result set (i.e. zero rows). (Query took 0.0050 seconds.)

`DROP TABLE IF EXISTS orderdetails;`

[Edit inline] [Edit] [Create PHP code]

Console

TUGAS 1

1. Import data perusahaan tersebut pada DBMS MySQL!

✓ Import has been successfully finished, 26 queries executed. (mysqlsampledatabse.sql)

2. Analisa struktur data dari database perusahaan tersebut, dalam bentuk tabel, analisa hubungan setiap tabel nya!

Tabel 1	Tabel 2	Jenis Relasi
productlines	products	one to many
employees	employees	one to many
offices	employees	one to many
employees	customers	one to many
customers	payments	one to many
customers	orders	one to many
orders	orderdetails	one to many
products	orderdetails	one to many

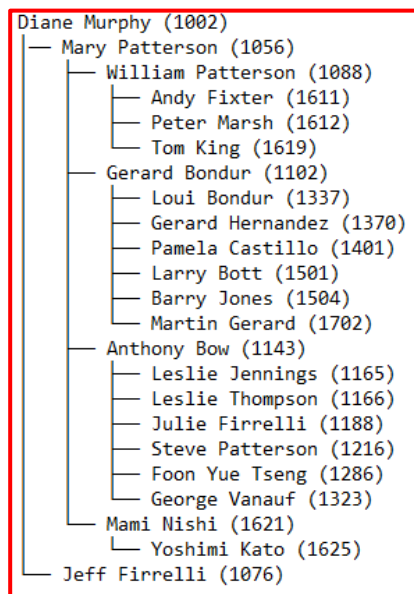
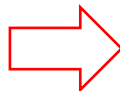
3. Analisa jumlah field pada setiap tabel!

Nama Tabel	Jumlah Field
customers	13
employees	8
offices	9
orderdetails	5
orders	7
payments	4
productlines	4
products	9

TUGAS 2

Gambarlah hirarki organisasi berdasarkan atasan dari setiap pegawai sesuai dengan hasil prkatikum diatas!

id_manager	Manager	id_staf	Staff
1143	Anthony Bow	1165	Leslie Jennings
1143	Anthony Bow	1166	Leslie Thompson
1143	Anthony Bow	1188	Julie Firrelli
1143	Anthony Bow	1216	Steve Patterson
1143	Anthony Bow	1286	Foon Yue Tseng
1143	Anthony Bow	1323	George Vanauf
1002	Diane Murphy	1056	Mary Patterson
1002	Diane Murphy	1076	Jeff Firrelli
1102	Gerard Bondur	1337	Loui Bondur
1102	Gerard Bondur	1370	Gerard Hernandez
1102	Gerard Bondur	1401	Pamela Castillo
1102	Gerard Bondur	1501	Larry Bott
1102	Gerard Bondur	1504	Barry Jones
1102	Gerard Bondur	1702	Martin Gerard
1621	Mami Nishi	1625	Yoshimi Kato
1056	Mary Patterson	1088	William Patterson
1056	Mary Patterson	1102	Gerard Bondur
1056	Mary Patterson	1143	Anthony Bow
1056	Mary Patterson	1621	Mami Nishi
1088	William Patterson	1611	Andy Fixter
1088	William Patterson	1612	Peter Marsh
1088	William Patterson	1619	Tom King



TUGAS 3

id_manager	Manager	id_staff	Staff	total_cust
1143	Anthony Bow	1165	Leslie Jennings	6
1143	Anthony Bow	1166	Leslie Thompson	6
1143	Anthony Bow	1188	Julie Firrelli	6
1143	Anthony Bow	1216	Steve Patterson	6
1143	Anthony Bow	1286	Foon Yue Tseng	7
1143	Anthony Bow	1323	George Vanauf	8
1002	Diane Murphy	1056	Mary Patterson	0
1002	Diane Murphy	1076	Jeff Firrelli	0
1102	Gerard Bondur	1337	Loui Bondur	6
1102	Gerard Bondur	1370	Gerard Hernandez	7
1102	Gerard Bondur	1401	Pamela Castillo	10
1102	Gerard Bondur	1501	Larry Bott	8
1102	Gerard Bondur	1504	Barry Jones	9
1102	Gerard Bondur	1702	Martin Gerard	6
1621	Mami Nishi	1625	Yoshimi Kato	0
1056	Mary Patterson	1088	William Patterson	0
1056	Mary Patterson	1102	Gerard Bondur	0
1056	Mary Patterson	1143	Anthony Bow	0
1056	Mary Patterson	1621	Mami Nishi	5
1088	William Patterson	1611	Andy Fixter	5
1088	William Patterson	1612	Peter Marsh	5
1088	William Patterson	1619	Tom King	0

- Siapaakah staff dengan hirarki paling bawah yang berprestasi dilihat dari jumlah customer terbanyak?
 - **Pamela Castillo (id_staff: 1401)** adalah staff dengan hirarki paling bawah yang memiliki jumlah customer terbanyak, yaitu **10 customer**.
- Jika KPI atasan dihitung dari customer yang dimilikinya dijumlah dengan customer dari staff dibawahnya, urutkan ranking prestasi keseluruhan pegawai beserta keterangan jumlah customer yang dimilikinya!
 - **Ranking pegawai tertinggi berdasarkan KPI "Jumlah Customer":**
 - Diane Murphy - 67 customer
 - Mary Patterson - 66 customer
 - Gerard Bondur - 46 customer
 - Anthony Bow - 39 customer
 - William Patterson - 10 customer
- Analisa kembali data LegendVehicle untuk mendapatkan ranking pegawai berdasarkan KPI **"Jumlah omset yang didapat"**. Urutkan ranking pegawai beserta keterangan dana yang didapat!

- **Saya menggunakan query berikut untuk mencari total omset per pegawai:**

```
SELECT e.employeeNumber, CONCAT(e.firstName, ' ', e.lastName) AS Staff,
       SUM(p.amount) AS total_revenue
FROM employees e
JOIN customers c ON e.employeeNumber = c.salesRepEmployeeNumber
JOIN payments p ON c.customerNumber = p.customerNumber
GROUP BY e.employeeNumber, e.firstName, e.lastName
ORDER BY total_revenue DESC;
```

➤ Sehingga didapatkan urutan :

employeeNumber	Staff	total_revenue
1370	Gerard Hernandez	1112003.81
1165	Leslie Jennings	989906.55
1401	Pamela Castillo	750201.87
1501	Larry Bott	686653.25
1504	Barry Jones	637672.65
1323	George Vanauf	584406.80
1337	Loui Bondur	569485.75
1611	Andy Fixter	509385.82
1612	Peter Marsh	497907.16
1286	Foon Yue Tseng	488212.67
1621	Mami Nishi	457110.07
1216	Steve Patterson	449219.13
1702	Martin Gerard	387477.47
1188	Julie Firrelli	386663.20
1166	Leslie Thompson	347533.03

4. Jika KPI yang pertama merupakan "**Jumlah customer yang bertransaksi**" sedangkan KPI yang kedua "**Jumlah omset yang didapat**". Maka, berapakah jumlah field yang dibutuhkan untuk mendapatkan informasi tersebut?

➤ Jumlah Field yang Dibutuhkan:

KPI	Jumlah Field
Jumlah customer yang bertransaksi	3
Jumlah omzet yang didapat	4

5. Buatlah report pertahun untuk KPI "**Jumlah omset yang didapat**" pada **Foon Yue Tseng** dan **Pamela Castillo**. Serta gambarkan grafiknya (grafik garis).

Staff	Tahun	total_revenue
Foon Yue Tseng	2003	221887.03
Foon Yue Tseng	2004	237255.26
Foon Yue Tseng	2005	29070.38
Pamela Castillo	2003	317104.78
Pamela Castillo	2004	409910.07
Pamela Castillo	2005	141205.02

