

Akshal DM

TASK MYSQL capture dan script

1. LOAD DATABASE

```
Command Prompt - mysql -u x + v
Microsoft Windows [Version 10.0.22621.1555]
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C:\Users\Neuron-NB153>cd /xampp/mysql/bin

C:\xampp\mysql\bin>mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 8
Server version: 10.4.22-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> source C:\Users\Neuron-NB153\Downloads\tugassql-aksal\mysqlsampledatabase.sql
Query OK, 0 rows affected (0.000 sec)

Query OK, 0 rows affected (0.000 sec)

Query OK, 0 rows affected (0.000 sec)

Query OK, 0 rows affected (0.000 sec)

Query OK, 0 rows affected (0.000 sec)

Query OK, 0 rows affected (0.000 sec)

Query OK, 0 rows affected (0.000 sec)

Database changed
Query OK, 0 rows affected (0.048 sec)

Query OK, 0 rows affected (0.014 sec)
```

2. SHOW TABLES

```
Query OK, 0 rows affected (0.005 sec)

Query OK, 110 rows affected (0.005 sec)
Records: 110  Duplicates: 0  Warnings: 0

Query OK, 0 rows affected (0.000 sec)

Query OK, 0 rows affected (0.000 sec)

Query OK, 0 rows affected (0.000 sec)

Query OK, 0 rows affected (0.000 sec)

MariaDB [classicmodels]> show tables;
+-----+
| Tables_in_classicmodels |
+-----+
| customers                |
| employees                |
| offices                  |
| orderdetails             |
| orders                   |
| payments                 |
| productlines             |
| products                 |
+-----+
8 rows in set (0.001 sec)

MariaDB [classicmodels]>
```

3. Querying data

SELECT orderNumber,status,comments,customerNumber,FLOOR(DATEDIFF('2023-05-04',
orderDate) / 365) YoS FROM orders;

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10425	2005-05-31	2005-06-07	NULL	In Process	NULL	119
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326 rows in set (0.001 sec)

MariaDB [classicmodels]> desc orders;

Field	Type	Null	Key	Default	Extra
orderNumber	int(11)	NO	PRI	NULL	
orderDate	date	NO		NULL	
requiredDate	date	NO		NULL	
shippedDate	date	YES		NULL	
status	varchar(15)	NO		NULL	
comments	text	YES		NULL	
customerNumber	int(11)	NO	MUL	NULL	

7 rows in set (0.002 sec)

MariaDB [classicmodels]> SELECT orderNumber,status,comments,customerNumber,FLOOR(DATEDIFF('2023-05-04', orderDate) / 365) YoS FROM orders;

orderNumber	status	comments	customerNumber	YoS
10100	Shipped	NULL	363	20
10101	Shipped	Check on availability.	128	20
10102	Shipped	NULL	181	20
10103	Shipped	NULL	121	20

4. Sorting data

SELECT employeeNumber,firstName,lastName,officeCode,jobTitle FROM employees order
by officeCode desc;

Command Prompt - mysql -u x + v

1621	Nishi	Mami	x101	mnishi@classicmodelcars.com	5	1056	Sales Rep
1625	Kato	Yoshimi	x102	ykato@classicmodelcars.com	5	1621	Sales Rep
1702	Gerard	Martin	x2312	mgerard@classicmodelcars.com	4	1102	Sales Rep

23 rows in set (0.000 sec)

MariaDB [classicmodels]> SELECT employeeNumber,firstName,lastName,officeCode,jobTitle FROM employees order by officeCode desc;

employeeNumber	firstName	lastName	officeCode	jobTitle
1501	Larry	Bott	7	Sales Rep
1504	Barry	Jones	7	Sales Rep
1611	Andy	Fixter	6	Sales Rep
1619	Tom	King	6	Sales Rep
1088	William	Patterson	6	Sales Manager (APAC)
1612	Peter	Marsh	6	Sales Rep
1621	Mami	Nishi	5	Sales Rep
1625	Yoshimi	Kato	5	Sales Rep
1370	Gerard	Hernandez	4	Sales Rep
1401	Pamela	Castillo	4	Sales Rep
1702	Martin	Gerard	4	Sales Rep
1102	Gerard	Bondur	4	Sale Manager (EMEA)
1337	Loui	Bondur	4	Sales Rep
1323	George	Vanauf	3	Sales Rep
1286	Foon Yue	Tseng	3	Sales Rep
1216	Steve	Patterson	2	Sales Rep
1188	Julie	Firrelli	2	Sales Rep
1056	Mary	Patterson	1	VP Sales
1076	Jeff	Firrelli	1	VP Marketing
1143	Anthony	Bow	1	Sales Manager (NA)
1165	Leslie	Jennings	1	Sales Rep
1166	Leslie	Thompson	1	Sales Rep
1002	Diane	Murphy	1	President

23 rows in set (0.036 sec)

5. Filtering data

select paymentDate,customerNumber,checkNumber,amount from payments where paymentDate > '2005/03/01' order by customerNumber ASC;

```
Command Prompt - mysql -u + -
```

37 rows in set (0.000 sec)

MariaDB [classicmodels]> select paymentDate,customerNumber,checkNumber,amount from payments where paymentDate > '2005/03/01' order by customerNumber ASC;

paymentDate	customerNumber	checkNumber	amount
2005-03-05	124	AE215433	101244.59
2005-04-16	124	ET64396	83598.04
2005-05-19	141	DL460618	46895.48
2005-03-25	141	IN446258	65071.26
2005-03-18	141	JE105477	120166.58
2005-03-27	148	ME497970	3516.04
2005-05-19	175	CITI3434344	28500.78
2005-03-10	186	AE192287	23602.90
2005-05-03	209	BOAF82044	35157.75
2005-03-02	219	BN17870	3452.75
2005-05-20	233	BOFA23232	29070.38
2005-06-03	242	HR224331	12432.32
2005-05-17	250	EQ12267	17928.00
2005-04-30	276	OJ819725	29848.52
2005-03-15	321	LA556321	46781.66
2005-05-23	323	AL493079	75020.13
2005-06-09	353	HJ618252	46656.94
2005-05-18	398	JPMR4544	615.45
2005-04-23	406	BJMPR4545	12190.85
2005-04-18	448	FS299615	27966.54
2005-05-03	452	HG635467	8807.12
2005-04-15	462	ED203908	30293.77
2005-05-25	496	EU531600	30253.75

23 rows in set (0.000 sec)

6. JOIN

select a.customerNumber,a.orderNumber,a.orderDate,a.status,b.amount,b.paymentDate from orders a join payments b on a.customerNumber = b.customerNumber where a.customerNumber = 323;

```
Command Prompt - mysql -u + -
```

129	10111	2003-03-25	Shipped	22275.73	2003-12-04
129	10111	2003-03-25	Shipped	7310.42	2004-01-31

88998 rows in set (0.046 sec)

MariaDB [classicmodels]> Ctrl-C -- query killed. Continuing normally.

select a.customerNumber,a.orderNumber,a.orderDate,a.status,b.amount,b.paymentDate from orders a join payments b on a.customerNumber = b.customerNumber where a.customerNumber = 323;

customerNumber	orderNumber	orderDate	status	amount	paymentDate
323	10132	2003-06-25	Shipped	75020.13	2005-05-23
323	10254	2004-06-03	Shipped	75020.13	2005-05-23
323	10354	2004-12-04	Shipped	75020.13	2005-05-23
323	10393	2005-03-11	Shipped	75020.13	2005-05-23
323	10404	2005-04-08	Shipped	75020.13	2005-05-23
323	10132	2003-06-25	Shipped	37281.36	2004-06-24
323	10254	2004-06-03	Shipped	37281.36	2004-06-24
323	10354	2004-12-04	Shipped	37281.36	2004-06-24
323	10393	2005-03-11	Shipped	37281.36	2004-06-24
323	10404	2005-04-08	Shipped	37281.36	2004-06-24
323	10132	2003-06-25	Shipped	2880.00	2003-07-05
323	10254	2004-06-03	Shipped	2880.00	2003-07-05
323	10354	2004-12-04	Shipped	2880.00	2003-07-05
323	10393	2005-03-11	Shipped	2880.00	2003-07-05
323	10404	2005-04-08	Shipped	2880.00	2003-07-05
323	10132	2003-06-25	Shipped	39440.59	2004-12-24
323	10254	2004-06-03	Shipped	39440.59	2004-12-24
323	10354	2004-12-04	Shipped	39440.59	2004-12-24
323	10393	2005-03-11	Shipped	39440.59	2004-12-24
323	10404	2005-04-08	Shipped	39440.59	2004-12-24

20 rows in set (0.039 sec)

7. Aggregate

select avg(amount) from payments where customerNumber = 323;

```
MariaDB [classicmodels]> select avg(amount) from payments where customerNumber = 323;
```

avg(amount)
38655.520000

1 row in set (0.038 sec)

MariaDB [classicmodels]>

8. Alias

select status as Vstatus from orders WHERE ORDERNUMBER = 10404;

```
MariaDB [classicmodels]> select status as Vstatus from orders WHERE ORDERNUMBER = 10404;
+-----+
| Vstatus |
+-----+
| Shipped |
+-----+
1 row in set (0.000 sec)
```

9. Text Operation

select ordernumber,status from orders WHERE ordernumber like '%1040%';

```
MariaDB [classicmodels]> select ordernumber,status from orders WHERE ordernumber like '%1040%';
+-----+-----+
| ordernumber | status |
+-----+-----+
| 10400 | Shipped |
| 10401 | On Hold |
| 10402 | Shipped |
| 10403 | Shipped |
| 10404 | Shipped |
| 10405 | Shipped |
| 10406 | Disputed |
| 10407 | On Hold |
| 10408 | Shipped |
| 10409 | Shipped |
+-----+-----+
10 rows in set (0.001 sec)
```

10. Numeric

select employeeNumber from employees where employeeNumber > 1400;

```
MariaDB [classicmodels]> select employeeNumber from employees where employeeNumber > 1400;
+-----+
| employeeNumber |
+-----+
| 1621 |
| 1611 |
| 1612 |
| 1619 |
| 1401 |
| 1501 |
| 1504 |
| 1702 |
| 1625 |
+-----+
9 rows in set (0.000 sec)
```

11. Single row function

select count(employeeNumber) as employee from employees;

```
MariaDB [classicmodels]> select count(employeeNumber) as employee from employees;
+-----+
| employee |
+-----+
| 23 |
+-----+
1 row in set (0.000 sec)
```

12. Insert

insert into

employees(employeeNumber,lastname,firstname,extension,email,officecode,reportsTo,jobTitle) values ('1706','Dzikril','Akshal','x1777','aksaldzm3@gmail.com','5','1102','Support');

```
MariaDB [classicmodels]> insert into employees(employeeNumber,lastname,firstname,extension,email,officecode,reportsTo,jobTitle)
-> values ('1706','Dzikril','Akshal','x1777','aksaldzm3@gmail.com','5','1102','Support');
Query OK, 1 row affected (0.012 sec)

MariaDB [classicmodels]> select * from employees where firstname = 'Akshal';
+-----+-----+-----+-----+-----+-----+-----+-----+
| employeeNumber | lastName | firstName | extension | email | officeCode | reportsTo | jobTitle |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1706 | Dzikril | Akshal | x1777 | aksaldzm3@gmail.com | 5 | 1102 | Support |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)
```

13. Update

update employees set lastname = 'Majid' where employeeenumber = '1706';

```
MariaDB [classicmodels]> select * from employees where firstname = 'Akshal';
+-----+-----+-----+-----+-----+-----+-----+-----+
| employeeNumber | lastName | firstName | extension | email | officeCode | reportsTo | jobTitle |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1706 | Dzikril | Akshal | x1777 | aksaldzm3@gmail.com | 5 | 1102 | Support |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [classicmodels]> update employees set lastname = 'Majid' where employeeenumber = '1706';
Query OK, 1 row affected (0.002 sec)
Rows matched: 1 Changed: 1 Warnings: 0

MariaDB [classicmodels]> select * from employees where firstname = 'Akshal';
+-----+-----+-----+-----+-----+-----+-----+-----+
| employeeNumber | lastName | firstName | extension | email | officeCode | reportsTo | jobTitle |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1706 | Majid | Akshal | x1777 | aksaldzm3@gmail.com | 5 | 1102 | Support |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)
```

14. Delete

delete from employees where employeeenumber = '1706';

```
MariaDB [classicmodels]> select * from employees where firstname = 'Akshal';
+-----+-----+-----+-----+-----+-----+-----+-----+
| employeeNumber | lastName | firstName | extension | email | officeCode | reportsTo | jobTitle |
+-----+-----+-----+-----+-----+-----+-----+-----+
| 1706 | Majid | Akshal | x1777 | aksaldzm3@gmail.com | 5 | 1102 | Support |
+-----+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.000 sec)

MariaDB [classicmodels]> delete from employees where employeeenumber = '1706';
Query OK, 1 row affected (0.012 sec)

MariaDB [classicmodels]> select * from employees where firstname = 'Akshal';
Empty set (0.000 sec)
```