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Matkul: Pemrograman Basis Data

1. Skema Database **orderentry**

a) Tampilkan data customer secara terurut dari a sampai z

```
C:\WINDOWS\system32\cmd. X + v
MariaDB [orderentry]> select * from customers;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | cust_name | cust_address | cust_city | cust_state | cust_zip | cust_country | cust_contact | cust_email |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 10002 | Mouse House | Gejayan Yogya | Columbus | OH | 43333 | INA | Jerry Mouse | NULL |
| 10003 | Wascals | 1 Sunny Place | Muncie | IN | 42222 | USA | Jim Jones | rabbit@wascally.com |
| 10004 | Yosemite Place | 829 Riverside Drive | Phoenix | AZ | 88888 | USA | Y Sam | sam@yosemite.com |
| 10005 | E Fudd | 4545 53rd Street | Chicago | IL | 45454 | USA | E Fudd | NULL |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

MariaDB [orderentry]> select * from customers order by cust_name asc;
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| cust_id | cust_name | cust_address | cust_city | cust_state | cust_zip | cust_country | cust_contact | cust_email |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
| 10005 | E Fudd | 4545 53rd Street | Chicago | IL | 45454 | USA | E Fudd | NULL |
| 10002 | Mouse House | Gejayan Yogya | Columbus | OH | 43333 | INA | Jerry Mouse | NULL |
| 10003 | Wascals | 1 Sunny Place | Muncie | IN | 42222 | USA | Jim Jones | rabbit@wascally.com |
| 10004 | Yosemite Place | 829 Riverside Drive | Phoenix | AZ | 88888 | USA | Y Sam | sam@yosemite.com |
+-----+-----+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

MariaDB [orderentry]> |
```

b) Tampilkan data vendor dan total vendors serta urutkan dari z ke a

```
C:\WINDOWS\system32\cmd. X + v
MariaDB [orderentry]> select * from vendors;
+-----+-----+-----+-----+-----+-----+-----+
| vend_id | vend_name | vend_address | vend_city | vend_state | vend_zip | vend_country |
+-----+-----+-----+-----+-----+-----+-----+
| 1001 | Anvils R Us | 123 Main Street | Southfield | MI | 48075 | USA |
| 1002 | LT Supplies | 500 Park Street | Anytown | OH | 44333 | USA |
| 1003 | ACME | 555 High Street | Los Angeles | CA | 90046 | USA |
| 1004 | Furball Inc. | 1000 5th Avenue | New York | NY | 11111 | USA |
| 1005 | Jet Set | 42 Galaxy Road | London | NULL | N16 6PS | England |
| 1006 | Jouets Et Ours | 1 Rue Amusement | Paris | NULL | 45678 | France |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

MariaDB [orderentry]> select vend_name, vend_country from vendors order by vend_country desc;
+-----+-----+
| vend_name | vend_country |
+-----+-----+
| Anvils R Us | USA |
| LT Supplies | USA |
| ACME | USA |
| Furball Inc. | USA |
| Jouets Et Ours | France |
| Jet Set | England |
+-----+-----+
6 rows in set (0.00 sec)

MariaDB [orderentry]> |
```

c) Tampilkan data detail penjualan dari order item berdasarkan dari jumlah penjualan terbanyak.

```
C:\WINDOWS\system32\cmd. X + v
MariaDB [orderentry]> select * from orderitems;
+-----+-----+-----+-----+
| order_num | order_item | prod_id | quantity |
+-----+-----+-----+-----+
| 20005 | 1 | ANV01 | 10 |
| 20005 | 2 | ANV02 | 3 |
| 20005 | 3 | tnt2 | 5 |
| 20005 | 4 | FB | 1 |
| 20006 | 1 | JP2000 | 1 |
| 20007 | 1 | TNT2 | 100 |
| 20008 | 1 | FC | 50 |
| 20009 | 1 | FB | 1 |
| 20009 | 2 | OL1 | 1 |
| 20009 | 3 | SLING | 1 |
| 20009 | 4 | ANV03 | 1 |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)

MariaDB [orderentry]> SELECT * FROM orderitems ORDER BY quantity DESC;
+-----+-----+-----+-----+
| order_num | order_item | prod_id | quantity |
+-----+-----+-----+-----+
| 20007 | 1 | TNT2 | 100 |
| 20008 | 1 | FC | 50 |
| 20005 | 1 | ANV01 | 10 |
| 20005 | 3 | tnt2 | 5 |
| 20005 | 2 | ANV02 | 3 |
| 20005 | 4 | FB | 1 |
| 20006 | 1 | JP2000 | 1 |
| 20009 | 1 | FB | 1 |
| 20009 | 2 | OL1 | 1 |
| 20009 | 3 | SLING | 1 |
| 20009 | 4 | ANV03 | 1 |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)
```

*select * from orderitems where quantity between 1 and 10;*

```
C:\WINDOWS\system32\cmd. x + v
MariaDB [orderentry]> SELECT * FROM orderitems ORDER BY quantity DESC;
+-----+-----+-----+-----+
| order_num | order_item | prod_id | quantity |
+-----+-----+-----+-----+
| 20007 | 1 | TNT2 | 100 |
| 20008 | 1 | FC | 50 |
| 20005 | 1 | ANV01 | 10 |
| 20005 | 3 | tnt2 | 5 |
| 20005 | 2 | ANV02 | 3 |
| 20005 | 4 | FB | 1 |
| 20006 | 1 | JP2000 | 1 |
| 20009 | 1 | FB | 1 |
| 20009 | 2 | OL1 | 1 |
| 20009 | 3 | SLING | 1 |
| 20009 | 4 | ANV03 | 1 |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)

MariaDB [orderentry]> SELECT * FROM orderitems where quantity between 1 and 10;
+-----+-----+-----+-----+
| order_num | order_item | prod_id | quantity |
+-----+-----+-----+-----+
| 20005 | 1 | ANV01 | 10 |
| 20005 | 2 | ANV02 | 3 |
| 20005 | 3 | tnt2 | 5 |
| 20005 | 4 | FB | 1 |
| 20006 | 1 | JP2000 | 1 |
| 20009 | 1 | FB | 1 |
| 20009 | 2 | OL1 | 1 |
| 20009 | 3 | SLING | 1 |
| 20009 | 4 | ANV03 | 1 |
+-----+-----+-----+-----+
9 rows in set (0.00 sec)
```

d) Carilah banyaknya, total, rata-rata, jumlah minimal, jumlah maksimal dari quantity penjualan. Data berasal dari tabel orderitems.

select count(quantity), sum(quantity), avg(quantity), min(quantity), max(quantity) from orderitems;

```
C:\WINDOWS\system32\cmd. x + v
MariaDB [orderentry]> select * from orderitems;
+-----+-----+-----+-----+
| order_num | order_item | prod_id | quantity |
+-----+-----+-----+-----+
| 20005 | 1 | ANV01 | 10 |
| 20005 | 2 | ANV02 | 3 |
| 20005 | 3 | tnt2 | 5 |
| 20005 | 4 | FB | 1 |
| 20006 | 1 | JP2000 | 1 |
| 20007 | 1 | TNT2 | 100 |
| 20008 | 1 | FC | 50 |
| 20009 | 1 | FB | 1 |
| 20009 | 2 | OL1 | 1 |
| 20009 | 3 | SLING | 1 |
| 20009 | 4 | ANV03 | 1 |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)

MariaDB [orderentry]> select count(quantity), sum(quantity), avg(quantity), min(quantity), max(quantity) from orderitems;
+-----+-----+-----+-----+-----+
| count(quantity) | sum(quantity) | avg(quantity) | min(quantity) | max(quantity) |
+-----+-----+-----+-----+-----+
| 11 | 174 | 15.8182 | 1 | 100 |
+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

MariaDB [orderentry]> |
```

e) Tampilkan nomer order yang memiliki total quantity antara 5-10.

```
C:\WINDOWS\system32\cmd. x + v
MariaDB [orderentry]> select * from orderitems;
+-----+-----+-----+-----+
| order_num | order_item | prod_id | quantity |
+-----+-----+-----+-----+
| 20005 | 1 | ANV01 | 10 |
| 20005 | 2 | ANV02 | 3 |
| 20005 | 3 | tnt2 | 5 |
| 20005 | 4 | FB | 1 |
| 20006 | 1 | JP2000 | 1 |
| 20007 | 1 | TNT2 | 100 |
| 20008 | 1 | FC | 50 |
| 20009 | 1 | FB | 1 |
| 20009 | 2 | OL1 | 1 |
| 20009 | 3 | SLING | 1 |
| 20009 | 4 | ANV03 | 1 |
+-----+-----+-----+-----+
11 rows in set (0.00 sec)

MariaDB [orderentry]> SELECT order_num, quantity FROM orderitems WHERE quantity BETWEEN 5 AND 10;
+-----+-----+
| order_num | quantity |
+-----+-----+
| 20005 | 10 |
| 20005 | 5 |
+-----+-----+
2 rows in set (0.00 sec)

MariaDB [orderentry]> |
```

f) Tampilkan data vendor id yang berasal dari ‘USA’.

```
C:\WINDOWS\system32\cmd. X + v
MariaDB [orderentry]> select * from vendors;
+-----+-----+-----+-----+-----+-----+-----+
| vend_id | vend_name | vend_address | vend_city | vend_state | vend_zip | vend_country |
+-----+-----+-----+-----+-----+-----+-----+
| 1001 | Anvils R Us | 123 Main Street | Southfield | MI | 48075 | USA |
| 1002 | LT Supplies | 500 Park Street | Anytown | OH | 44333 | USA |
| 1003 | ACME | 555 High Street | Los Angeles | CA | 90046 | USA |
| 1004 | Furball Inc. | 1000 5th Avenue | New York | NY | 11111 | USA |
| 1005 | Jet Set | 42 Galaxy Road | London | NULL | N16 6PS | England |
| 1006 | Jouets Et Ours | 1 Rue Amusement | Paris | NULL | 45678 | France |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

MariaDB [orderentry]> SELECT * FROM vendors where vend_country='USA';
+-----+-----+-----+-----+-----+-----+-----+
| vend_id | vend_name | vend_address | vend_city | vend_state | vend_zip | vend_country |
+-----+-----+-----+-----+-----+-----+-----+
| 1001 | Anvils R Us | 123 Main Street | Southfield | MI | 48075 | USA |
| 1002 | LT Supplies | 500 Park Street | Anytown | OH | 44333 | USA |
| 1003 | ACME | 555 High Street | Los Angeles | CA | 90046 | USA |
| 1004 | Furball Inc. | 1000 5th Avenue | New York | NY | 11111 | USA |
+-----+-----+-----+-----+-----+-----+-----+
4 rows in set (0.00 sec)

MariaDB [orderentry]> |
```

g) Tampilkan nama produk dan nama vendor yang mengandung huruf ‘p’.

```
C:\WINDOWS\system32\cmd. X + v
MariaDB [orderentry]> select * from products;
+-----+-----+-----+-----+-----+
| prod_id | vend_id | prod_name | prod_price | prod_desc |
+-----+-----+-----+-----+-----+
| ANV02 | 1001 | 1 ton anvil | 10 | 1 ton anvil, black, complete with handy hook and carrying case |
| ANV03 | 1001 | 2 ton anvil | 15 | 2 ton anvil, black, complete with handy hook and carrying case |
| DTNTR | 1003 | Detonator | 10 | Detonator (plunger powered), fuses not include |
| FB | 1003 | Bird seed | 10 | large bag (suitable for road runners) |
| FC | 1003 | Carrots | 3 | Carrots (rabbit hunting season only) |
| FU1 | 1002 | Fuses | 3 | 1 dozen, extra long |
| JP1000 | 1005 | JetPack 1000 | 35 | JetPack 1000, intended for single use |
| JP2000 | 1005 | JetPack 2000 | 55 | JetPack 2000, multi-use |
| OL1 | 1002 | Oil can | 9 | Oil can, red |
| SAFE | 1003 | Safe | 50 | Safe with combination lock |
| SLING | 1003 | sling | 4 | Sling, one size fits all |
| TNT1 | 1003 | TNT (1 stick) | 3 | TNT, red, single stick |
| TNT2 | 1003 | TNT (5 sticks) | 10 | TNT, red, pack of 10 sticks |
+-----+-----+-----+-----+-----+
13 rows in set (0.00 sec)

MariaDB [orderentry]> SELECT * FROM products WHERE prod_name LIKE '%p%';
+-----+-----+-----+-----+-----+
| prod_id | vend_id | prod_name | prod_price | prod_desc |
+-----+-----+-----+-----+-----+
| JP1000 | 1005 | JetPack 1000 | 35 | JetPack 1000, intended for single use |
| JP2000 | 1005 | JetPack 2000 | 55 | JetPack 2000, multi-use |
+-----+-----+-----+-----+-----+
2 rows in set (0.00 sec)

MariaDB [orderentry]> |
```

```
C:\WINDOWS\system32\cmd. X + v
MariaDB [orderentry]> select * from vendors;
+-----+-----+-----+-----+-----+-----+-----+
| vend_id | vend_name | vend_address | vend_city | vend_state | vend_zip | vend_country |
+-----+-----+-----+-----+-----+-----+-----+
| 1001 | Anvils R Us | 123 Main Street | Southfield | MI | 48075 | USA |
| 1002 | LT Supplies | 500 Park Street | Anytown | OH | 44333 | USA |
| 1003 | ACME | 555 High Street | Los Angeles | CA | 90046 | USA |
| 1004 | Furball Inc. | 1000 5th Avenue | New York | NY | 11111 | USA |
| 1005 | Jet Set | 42 Galaxy Road | London | NULL | N16 6PS | England |
| 1006 | Jouets Et Ours | 1 Rue Amusement | Paris | NULL | 45678 | France |
+-----+-----+-----+-----+-----+-----+-----+
6 rows in set (0.00 sec)

MariaDB [orderentry]> SELECT * FROM vendors WHERE vend_name LIKE '%p%';
+-----+-----+-----+-----+-----+-----+-----+
| vend_id | vend_name | vend_address | vend_city | vend_state | vend_zip | vend_country |
+-----+-----+-----+-----+-----+-----+-----+
| 1002 | LT Supplies | 500 Park Street | Anytown | OH | 44333 | USA |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)

MariaDB [orderentry]> |
```

h) Tampilkan data prod_name sebagai nama produk dan harganya.

```
C:\WINDOWS\system32\cmd. X + v

MariaDB [orderentry]> select * from products;
+-----+-----+-----+-----+-----+
| prod_id | vend_id | prod_name | prod_price | prod_desc |
+-----+-----+-----+-----+-----+
| ANV02 | 1001 | 1 ton anvil | 10 | 1 ton anvil, black, complete with handy hook and carrying case |
| ANV03 | 1001 | 2 ton anvil | 15 | 2 ton anvil, black, complete with handy hook and carrying case |
| DTNTR | 1003 | Detonator | 10 | Detonator (plunger powered), fuses not include |
| FB | 1003 | Bird seed | 10 | large bag (suitable for road runners) |
| FC | 1003 | Carrots | 3 | Carrots (rabbit hunting season only) |
| FU1 | 1002 | FUses | 3 | 1 dozen, extra long |
| JP1000 | 1005 | JetPack 1000 | 35 | JetPack 1000, intended for single use |
| JP2000 | 1005 | JetPack 2000 | 55 | JetPack 2000, multi-use |
| OIL | 1002 | Oil can | 9 | Oil can, red |
| SAFE | 1003 | Safe | 50 | Safe with combination lock |
| SLING | 1003 | sling | 4 | Sling, one size fits all |
| TNT1 | 1003 | TNT (1 stick) | 3 | TNT, red, single stick |
| TNT2 | 1003 | TNT (5 sticks) | 10 | TNT, red, pack of 10 sticks |
+-----+-----+-----+-----+-----+

13 rows in set (0.00 sec)

MariaDB [orderentry]> SELECT prod_name, prod_price FROM products;
+-----+-----+
| prod_name | prod_price |
+-----+-----+
| 1 ton anvil | 10 |
| 2 ton anvil | 15 |
| Detonator | 10 |
| Bird seed | 10 |
| Carrots | 3 |
| FUses | 3 |
| JetPack 1000 | 35 |
| JetPack 2000 | 55 |
| Oil can | 9 |
| Safe | 50 |
| sling | 4 |
| TNT (1 stick) | 3 |
| TNT (5 sticks) | 10 |
+-----+-----+

13 rows in set (0.00 sec)
```

2. Perintah SQL untuk menampilkan:

a) Tanggal praktikum

```
C:\WINDOWS\system32\cmd. X + v

MariaDB [orderentry]> Select Current_Date As 'Tanggal Hari Ini';
+-----+
| Tanggal Hari Ini |
+-----+
| 2023-11-23 |
+-----+

1 row in set (0.00 sec)

MariaDB [orderentry]> |
```

b) Jam sekarang

```
C:\WINDOWS\system32\cmd. X + v

MariaDB [orderentry]> select current_time as Jam_Sekarang;
+-----+
| Jam_Sekarang |
+-----+
| 09:09:06 |
+-----+

1 row in set (0.00 sec)

MariaDB [orderentry]> |
```

c) Jam sekarang – Jam awal masuk praktikum

```
C:\WINDOWS\system32\cmd. x + v

MariaDB [orderentry]> select time '08:00:00' - time '09:00:00';
+-----+
| time '08:00:00' - time '09:00:00' |
+-----+
| -10000 |
+-----+
1 row in set (0.00 sec)

MariaDB [orderentry]> select time '08:00:00' - time '09:00:45';
+-----+
| time '08:00:00' - time '09:00:45' |
+-----+
| -10045 |
+-----+
1 row in set (0.00 sec)

MariaDB [orderentry]> select time '08:00:00' - time '08:30:00';
+-----+
| time '08:00:00' - time '08:30:00' |
+-----+
| -3000 |
+-----+
1 row in set (0.00 sec)

MariaDB [orderentry]> |
```

d) Tahun sekarang (2023) – Tahun Lahir saya yaitu (20 Mei 2001)

select year(now()) – year('2001-05-20');

```
C:\WINDOWS\system32\cmd. x + v

MariaDB [orderentry]> SELECT YEAR(NOW()) - YEAR('2001-05-20');
+-----+
| YEAR(NOW()) - YEAR('2001-05-20') |
+-----+
| 22 |
+-----+
1 row in set (0.00 sec)

MariaDB [orderentry]> |
```

LAMPIRAN-LAMPIRAN

Repository SQL & PDF orderentry :

<https://github.com/toni2005/PrakDB-221250000436>