

Hasil Query SQL dan Dokumentasi Sistem Backup

- Hasil Query SQL
 - Tambah data ke tabel kategori

Run SQL query/queries on database bnsp_db:

```
1 INSERT INTO kategori (nama_kategori, deskripsi) VALUES
2 ('Elektronik', 'Produk-produk elektronik seperti laptop, smartphone, dll.'),
3 ('Pakaian', 'Berbagai jenis pakaian pria dan wanita.'),
4 ('Makanan', 'Produk makanan ringan dan berat.')|
```

kategori_id	nama_kategori	deskripsi
1	Elektronik	Produk-produk elektronik seperti laptop, smartphone...
2	Pakaian	Berbagai jenis pakaian pria dan wanita.
3	Makanan	Produk makanan ringan dan berat.

- Tambah data ke tabel produk

Run SQL query/queries on database bnsp_db:

```
1 INSERT INTO produk (nama_produk, harga, stok, kategori_id) VALUES
2 ('Laptop Lenovo', 8500000.00, 10, 1),
3 ('Smartphone Samsung', 5500000.00, 15, 1),
4 ('Kaos Polos', 75000.00, 100, 2),
5 ('Celana Jeans', 180000.00, 50, 2),
6 ('Nasi Goreng Instan', 12000.00, 200, 3),
7 ('Kopi Hitam Sachet', 2500.00, 500, 3);|
```

Showing rows 0 - 5 (6 total; Query took 0.0005 seconds)

SELECT * FROM `produk`

produk_id	nama_produk	harga	stok	kategori_id
1	Laptop Lenovo	8500000.00	10	1
2	Smartphone Samsung	5500000.00	15	1
3	Kaos Polos	75000.00	100	2
4	Celana Jeans	180000.00	50	2
5	Nasi Goreng Instan	12000.00	200	3
6	Kopi Hitam Sachet	2500.00	500	3

- Pembuatan trigger untuk transaksi

The screenshot shows the phpMyAdmin interface with the database 'bnsp_dba' selected. In the left sidebar, under the 'Structure' tab, there is a tree view of tables: 'New', 'bnsp_dba', 'New', 'kategori', 'produk', and 'transaksi'. The 'transaksi' table is expanded. In the main SQL query window, the following trigger code is being entered:

```

5: AFTER INSERT ON `transaksi`
6: FOR EACH ROW
7: BEGIN
8:   IF NEW.jenis_transaksi = 'penjualan' THEN
9:     UPDATE produk
10:    SET stok = stok - NEW.jumlah
11:      WHERE produk_id = NEW.produk_id;
12:  ELSEIF NEW.jenis_transaksi = 'pembelian' THEN
13:    UPDATE produk
14:    SET stok = stok + NEW.jumlah
15:      WHERE produk_id = NEW.produk_id;
16:  END IF;
17: END;
18: //
19:
20: DELIMITER ;

```

A yellow tooltip message 'You have a previously saved query. Click Get auto-saved query to load the query.' is visible near the top right of the SQL window.

- Tambah data ke tabel transaksi (penjualan dan pembelian)

- Penjualan

The screenshot shows the phpMyAdmin interface with the database 'bnsp_dba' selected. In the left sidebar, under the 'Structure' tab, there is a tree view of tables: 'New', 'bnsp_dba', 'New', and 'kategori'. The 'transaksi' table is expanded. In the main SQL query window, the following SQL statement is being entered:

```

1 -- Penjualan: 2 unit Kaos Polos (stok berkurang)
2 INSERT INTO transaksi (produk_id, jumlah, total_harga, jenis_transaksi)
3 VALUES (3, 2, 150000.00, 'penjualan');

```

The screenshot shows the phpMyAdmin interface with the database 'bnsp_dba' selected. In the left sidebar, under the 'Structure' tab, there is a tree view of tables: 'New', 'bnsp_dba', 'New', and 'kategori'. The 'produk' table is expanded. Below the table, a grid of product data is shown:

	produk_id	nama_produk	harga	stok	kategori_id
□	1	Laptop Lenovo	8500000.00	10	1
□	2	Smartphone Samsung	5500000.00	15	1
□	3	Kaos Polos	75000.00	98	2
□	4	Celana Jeans	180000.00	50	2
□	5	Nasi Goreng Instan	12000.00	200	3
□	6	Kopi Hitam Sachet	2500.00	500	3

- Pembelian

The screenshot shows the phpMyAdmin interface with the database 'bnsp_dba' selected. In the left sidebar, under the 'Structure' tab, there is a tree view of tables: 'New', 'bnsp_dba', 'New', and 'kategori'. The 'transaksi' table is expanded. In the main SQL query window, the following SQL statement is being entered:

```

1 -- Pembelian: Restok 5 unit Nasi Goreng Instan (stok bertambah)
2 INSERT INTO transaksi (produk_id, jumlah, total_harga, jenis_transaksi)
3 VALUES (5, 5, 60000.00, 'pembelian');

```

The screenshot shows the phpMyAdmin interface with the database 'bnsp_dba' selected. In the left sidebar, under the 'Structure' tab, there is a tree view of tables: 'New', 'bnsp_dba', 'New', and 'kategori'. The 'produk' table is expanded. Below the table, a grid of product data is shown:

	produk_id	nama_produk	harga	stok	kategori_id
□	1	Laptop Lenovo	8500000.00	10	1
□	2	Smartphone Samsung	5500000.00	15	1
□	3	Kaos Polos	75000.00	98	2
□	4	Celana Jeans	180000.00	50	2
□	5	Nasi Goreng Instan	12000.00	205	3
□	6	Kopi Hitam Sachet	2500.00	500	3

- Hasil akhir transaksi

	transaksi_id	tanggal	produk_id	jumlah	total_harga	jenis_transaksi
	1	2025-04-24 15:47:17	3	2	150000.00	penjualan
	2	2025-04-24 15:47:58	5	5	60000.00	pembelian

- Dokumentasi Sistem Backup
 - Pembuatan file backup otomatis

```

@echo off
:: Konfigurasi user/password/database
set db_user=root
set db_password=
set db_name=toko_db

:: Lokasi laragon dan backup
set mysql_path=C:\laragon\bin\mysql\mysql-*\bin
set backup_dir=C:\DatabaseBackup
set
timestamp=%date:~-4%-%date:~3,2%-%date:~0,2%_%time:~0,2%-%time:~3,2%
set
backup_file=%backup_dir%\%db_name%_%timestamp%.sql

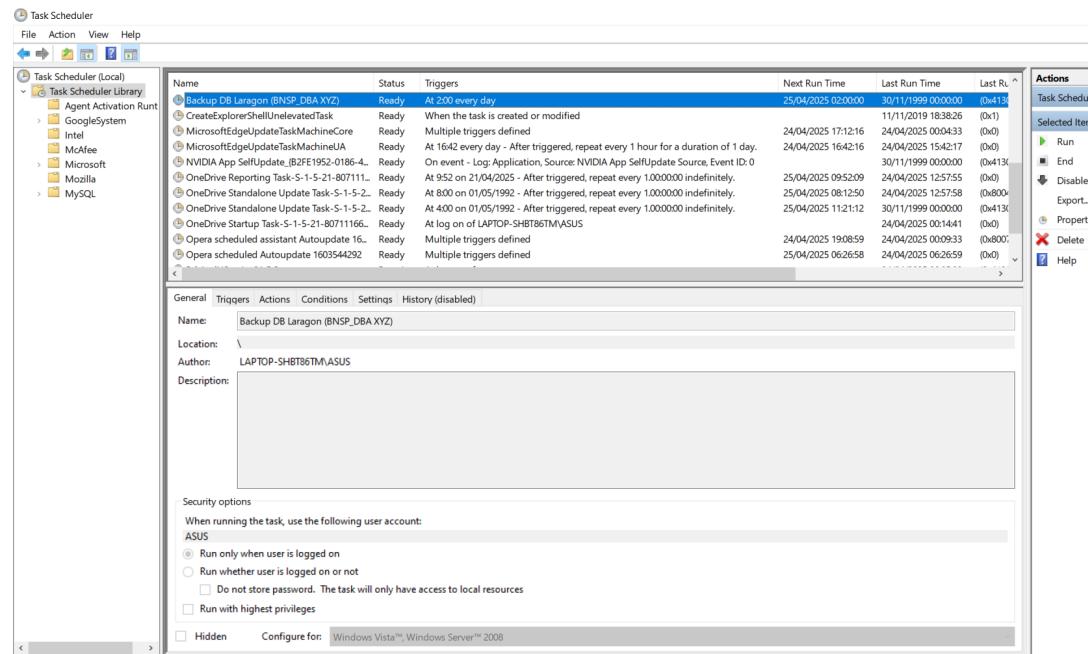
:: Buat folder backup jika belum ada
if not exist %backup_dir% mkdir %backup_dir%

:: Backup menggunakan mysqldump Laragon
for /d %%i in (%mysql_path%) do (
  "%%i\mysqldump.exe" -u %db_user% %db_name% >
  "%backup_file%"
)

echo Backup selesai: %backup_file%

```

- Penjadwalan otomatis pukul 02:00 AM



○ Uji Backup Data (Sukses)

The screenshot shows the MySQL Workbench interface. On the left, a tree view shows database structures like 'kategori', 'produk', and 'transaksi'. On the right, the 'produk' table structure is displayed:

Table	Action	Rows	Type	Collation	Size	Overhead
kategori	Browse Structure Search Insert Empty Drop	3	InnoDB	utf8mb4_0900_ai_ci	16.0 KiB	-
produk	Browse Structure Search Insert Empty Drop	6	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
transaksi	Browse Structure Search Insert Empty Drop	2	InnoDB	utf8mb4_0900_ai_ci	32.0 KiB	-
3 tables Sum		11	InnoDB	utf8mb4_0900_ai_ci	80.0 KiB	0 B

○ Uji Restore Data

■ Hapus satu baris data pada tabel produk

The screenshot shows the phpMyAdmin interface. The 'produk' table is selected. In the SQL tab, the following query was run:

```
SELECT * FROM `produk`
```

A message box indicates: "1 row affected. (Query took 0.0370 seconds.)". The table data is as follows:

produk_id	nama_produk	harga	stok	kategori_id
1	Laptop Lenovo	8500000.00	10	1
2	Smartphone Samsung	5500000.00	15	1
3	Kaos Polos	75000.00	98	2
4	Celana Jeans	180000.00	50	2
5	Nasi Goreng Instan	12000.00	205	3

■ Proses restore

The screenshot shows the phpMyAdmin interface for importing data into the 'produk' table. The left sidebar shows databases like 'backup_bnsp_dba' and 'bnsp_dba'. The main area has a form titled 'Importing into the table "produk"' with a file input field containing 'bnsp_dba_2025-04-24_16-20.sql'. The character set is set to 'utf-8'.

The screenshot shows the phpMyAdmin interface after a successful import. A green message bar at the top says 'Import has been successfully finished, 62 queries executed. (bnsp_dba_2025-04-24_16-20.sql)'. The left sidebar shows the 'produk' table under the 'bnsp_dba' database.

■ Hasil akhir restore

The screenshot shows the 'produk' table in the 'bnsp_dba' database. The table contains the following data:

	produk_id	nama_produk	harga	stok	kategori_id
<input type="checkbox"/>	1	Laptop Lenovo	8500000.00	10	1
<input type="checkbox"/>	2	Smartphone Samsung	5500000.00	15	1
<input type="checkbox"/>	3	Kaos Polos	75000.00	98	2
<input type="checkbox"/>	4	Celana Jeans	180000.00	50	2
<input type="checkbox"/>	5	Nasi Goreng Instan	12000.00	205	3
<input type="checkbox"/>	6	Kopi Hitam Sachet	2500.00	500	3