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Kelas	: Informatika / A2
Mata Kuliah	: Database Manajemen Sistem Lanjut
Semester	: 5 (Ganjil)
Tugas	: Minggu 3

Kerjakan materi di atas, ikuti tahapan yang ada di modul

A. Import Database

1. Import dari file

2. Lihat tabel yang sudah di import

```
mysql> show tables;
+------------------------+
| Tables_in_classicmodels |
+------------------------+
| customers              |
| employees              |
| offices                |
| orderdetails           |
| orders                 |
| payments               |
| productlines           |
| products               |
+------------------------+
8 rows in set (0.00 sec)

mysql>
```

B. Create MySQL View
   1. Creating a simple view example

```
mysql> CREATE VIEW SalePerOrder AS
    -> SELECT
    -> orderNumber,
    -> SUM(quantityOrdered * priceEach) total
    -> FROM
    -> orderDetails
    -> GROUP BY orderNumber
    -> ORDER BY total DESC;
Query OK, 0 rows affected (0.01 sec)

mysql> select * from SalePerOrder;
+-------------+----------+
| orderNumber | total    |
+-------------+----------+
|       10165 | 67392.85 |
|       10287 | 61402.00 |
|       10310 | 61234.67 |
```

2. Creating a view based on another view example

```
mysql> CREATE VIEW bigSalesOrder AS
    -> SELECT
    -> orderNumber,
    -> ROUND(total,2) as total
    -> FROM
    -> salePerOrder
    -> WHERE
    -> total > 60000;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT orderNumber, total FROM bigSalesOrder;
+-------------+----------+
| orderNumber | total    |
+-------------+----------+
|       10165 | 67392.85 |
|       10287 | 61402.00 |
|       10310 | 61234.67 |
+-------------+----------+
3 rows in set (0.01 sec)

mysql>
```

3. Creating a view with join example

```
mysql> CREATE OR REPLACE VIEW customerOrders AS
    -> SELECT
    -> orderNumber,
    -> customerName,
    -> SUM(quantityOrdered * priceEach) total
    -> FROM
    -> orderDetails
    -> INNER JOIN orders o USING (orderNumber)
    -> INNER JOIN customers USING (customerNumber)
    -> GROUP BY orderNumber;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT * FROM customerOrders
    -> ORDER BY total DESC;
+-------------+------------------------------------+----------+
| orderNumber | customerName                       | total    |
+-------------+------------------------------------+----------+
|       10165 | Dragon Souveniers, Ltd.            | 67392.85 |
|       10287 | Vida Sport, Ltd                    | 61402.00 |
|       10310 | Toms Spezialit├ñten, Ltd           | 61234.67 |
|       10212 | Euro+ Shopping Channel             | 59830.55 |
|       10207 | Diecast Collectables               | 59265.14 |
|       10127 | Muscle Machine Inc                 | 58841.35 |
|       10204 | Muscle Machine Inc                 | 58793.53 |
```

4. Creating a view with a subquery example

```
mysql> CREATE VIEW aboveAvgProducts AS
    -> SELECT
    -> productCode,
    -> productName,
    -> buyPrice
    -> FROM
    -> products
    -> WHERE
    -> buyPrice > (
    -> SELECT
    -> AVG(buyPrice)
    -> FROM
    -> products)
    -> ORDER BY buyPrice DESC;
Query OK, 0 rows affected (0.03 sec)

mysql> SELECT * FROM aboveAvgProducts;
+-------------+-------------------------------------------+----------+
| productCode | productName                               | buyPrice |
+-------------+-------------------------------------------+----------+
| S10_4962    | 1962 LanciaA Delta 16V                    |   103.42 |
| S18_2238    | 1998 Chrysler Plymouth Prowler            |   101.51 |
| S10_1949    | 1952 Alpine Renault 1300                  |    98.58 |
| S24_3856    | 1956 Porsche 356A Coupe                   |    98.30 |
| S12_1108    | 2001 Ferrari Enzo                         |    95.59 |
| S12_1099    | 1968 Ford Mustang                         |    95.34 |
```

5. Creating a view with explicit view columns example

```
mysql> CREATE VIEW customerOrderStats (
    -> customerName ,
    -> orderCount)
    -> AS
    -> SELECT
    -> customerName,
    -> COUNT(orderNumber)
    -> FROM
    -> customers
    -> INNER JOIN
    -> orders USING (customerNumber)
    -> GROUP BY customerName;
Query OK, 0 rows affected (0.01 sec)

mysql> SELECT
    ->  customerName,
    ->  orderCount
    -> FROM
    ->  customerOrderStats
    -> ORDER BY
    -> orderCount,
    ->  customerName;
+-----------------------------------+------------+
| customerName                      | orderCount |
+-----------------------------------+------------+
| Bavarian Collectables Imports, Co. |          1 |
| Amica Models & Co.                |          2 |
| Auto Associ©s & Cie.              |          2 |
```