



UAS BASIS DATA LANJUTAN

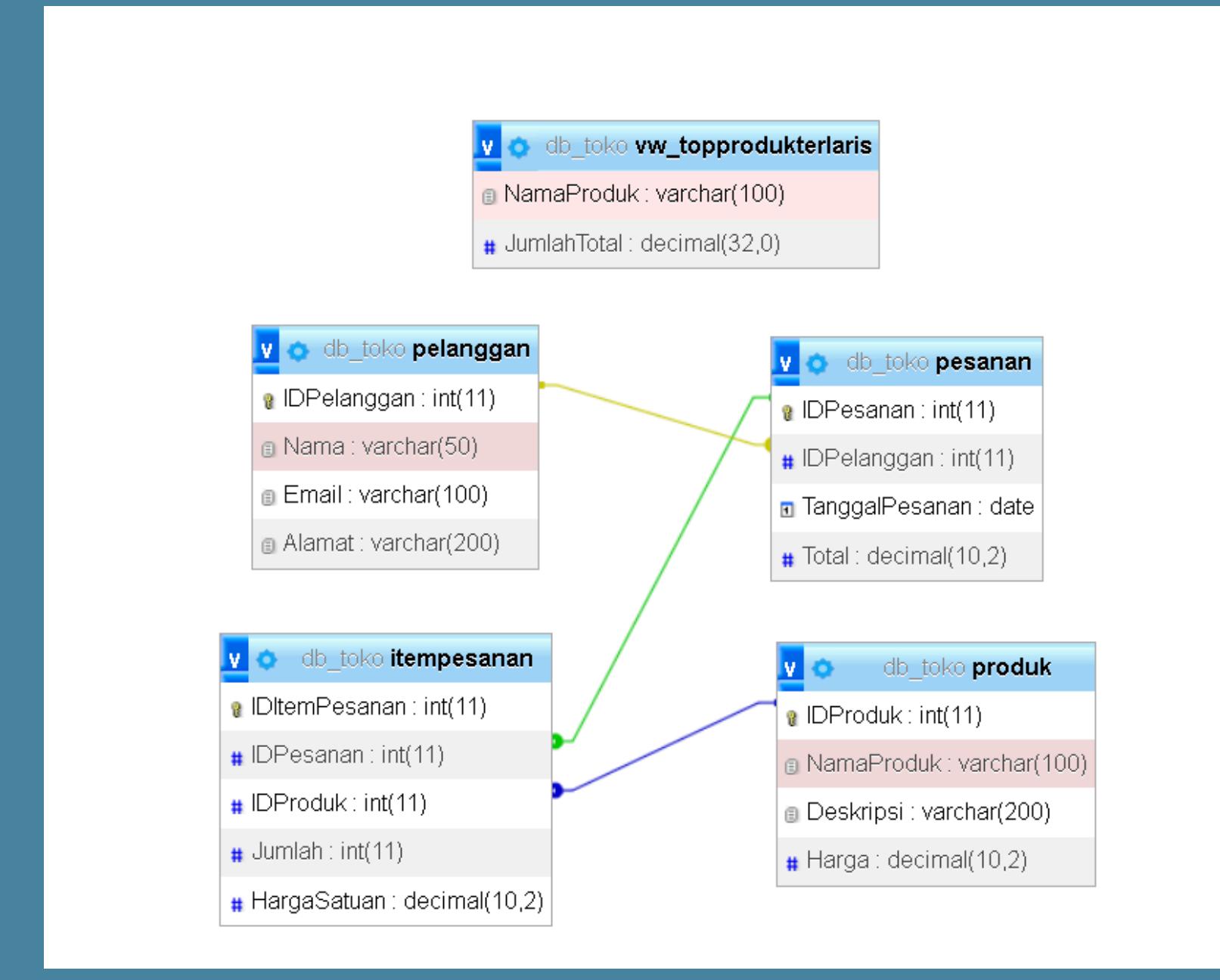
DIBUAT OLEH FAOZAN GANES SETIAWAN
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PENJELASAN PROJEK

Project basis data yang saya buat adalah Toko Online yang berisitabel :

1. itempesanan
2. pelanggan
3. pesanan
4. produk

ENTITY RELATIONSHIP DIAGRAM



VIEW DAN AGGREGAT

```
MariaDB [db_toko]> CREATE VIEW vw_TopProdukTerlaris AS
-> SELECT p.NamaProduk, SUM(ip.Jumlah) AS JumlahTotal
-> FROM Produk p
-> JOIN ItemPesanan ip ON p.IDProduk = ip.IDProduk
-> GROUP BY p.NamaProduk
-> ORDER BY JumlahTotal DESC
-> LIMIT 10;
Query OK, 0 rows affected (0.045 sec)

MariaDB [db_toko]> SELECT p.Nama, SUM(ps.Total) AS TotalPendapatan
-> FROM Pelanggan p
-> JOIN Pesanan ps ON p.IDPelanggan = ps.IDPelanggan
-> GROUP BY p.Nama;
+-----+-----+
| Nama      | TotalPendapatan |
+-----+-----+
| Bob Brown | 150000.00 |
| Jane Smith | 200000.00 |
| John Doe  | 150000.00 |
+-----+-----+
3 rows in set (0.001 sec)
```

INDEX

```
MariaDB [db_toko]> CREATE INDEX idx_NamaProduk ON Produk (NamaProduk);
Query OK, 0 rows affected (0.069 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

TRIGGER

```
MariaDB [db_toko]> CREATE TRIGGER trg_UpdateTotalPesanan_Insert
-> AFTER INSERT ON ItemPesanan
-> FOR EACH ROW
-> BEGIN
->     UPDATE Pesanan
->     SET Total = (SELECT SUM(ip.HargaSatuan * ip.Jumlah) FROM ItemPesanan ip WHERE ip.IDPesanan = Pesanan.IDPesanan)
->     WHERE IDPesanan = NEW.IDPesanan;
-> END//'
Query OK, 0 rows affected (0.051 sec)
```

LEFT JOIN DAN INNER JOIN

```
MariaDB [db_toko]> -- Dapatkan semua pelanggan dan pesanan mereka (jika ada)
MariaDB [db_toko]> SELECT p.Nama, ps.TanggalPesanan
    -> FROM Pelanggan p
    -> LEFT JOIN Pesanan ps ON p.IDPelanggan = ps.IDPelanggan;
+-----+-----+
| Nama      | TanggalPesanan |
+-----+-----+
| John Doe   | 2022-01-01   |
| John Doe   | 2022-01-15   |
| Jane Smith | 2022-02-01   |
| Bob Brown  | 2022-03-01   |
+-----+-----+
4 rows in set (0.001 sec)

MariaDB [db_toko]> -- Dapatkan semua pesanan dengan produk mereka
MariaDB [db_toko]> SELECT ps.TanggalPesanan, p.NamaProduk
    -> FROM Pesanan ps
    -> INNER JOIN ItemPesanan ip ON ps.IDPesanan = ip.IDPesanan
    -> INNER JOIN Produk p ON ip.IDProduk = p.IDProduk;
Empty set (0.001 sec)
```

SUBQUERY

```
MariaDB [db_toko]> SELECT p.Nama
    -> FROM Pelanggan p
    -> WHERE p.IDPelanggan IN (
    ->     SELECT ps.IDPelanggan
    ->     FROM Pesanan ps
    ->     WHERE ps.Total > 100
    -> );
+-----+
| Nama |
+-----+
| John Doe |
| Jane Smith |
| Bob Brown |
+-----+
3 rows in set (0.001 sec)
```

HAVING

```
MariaDB [db_toko]> SELECT p.Nama, COUNT(ps.IDPesanan) AS JumlahPesanan
-> FROM Pelanggan p
-> JOIN Pesanan ps ON p.IDPelanggan = ps.IDPelanggan
-> GROUP BY p.Nama
-> HAVING COUNT(ps.IDPesanan) > 2;
Empty set (0.001 sec)
```

WILDCARD

```
MariaDB [db_toko]> SELECT p.NamaProduk
-> FROM Produk p
-> WHERE p.NamaProduk LIKE '%ponsel%';
+-----+
| NamaProduk |
+-----+
| Ponsel X   |
+-----+
1 row in set (0.001 sec)
```

DUMPING DATA

```
C:\xampp\mysql\bin>mysqldump -u root -p db_toko > C:\Users\ojan\Downloads\db_toko_backup.sql
Enter password:
```



TERIMAKASIH