

UTS DATA WAREHOUSE

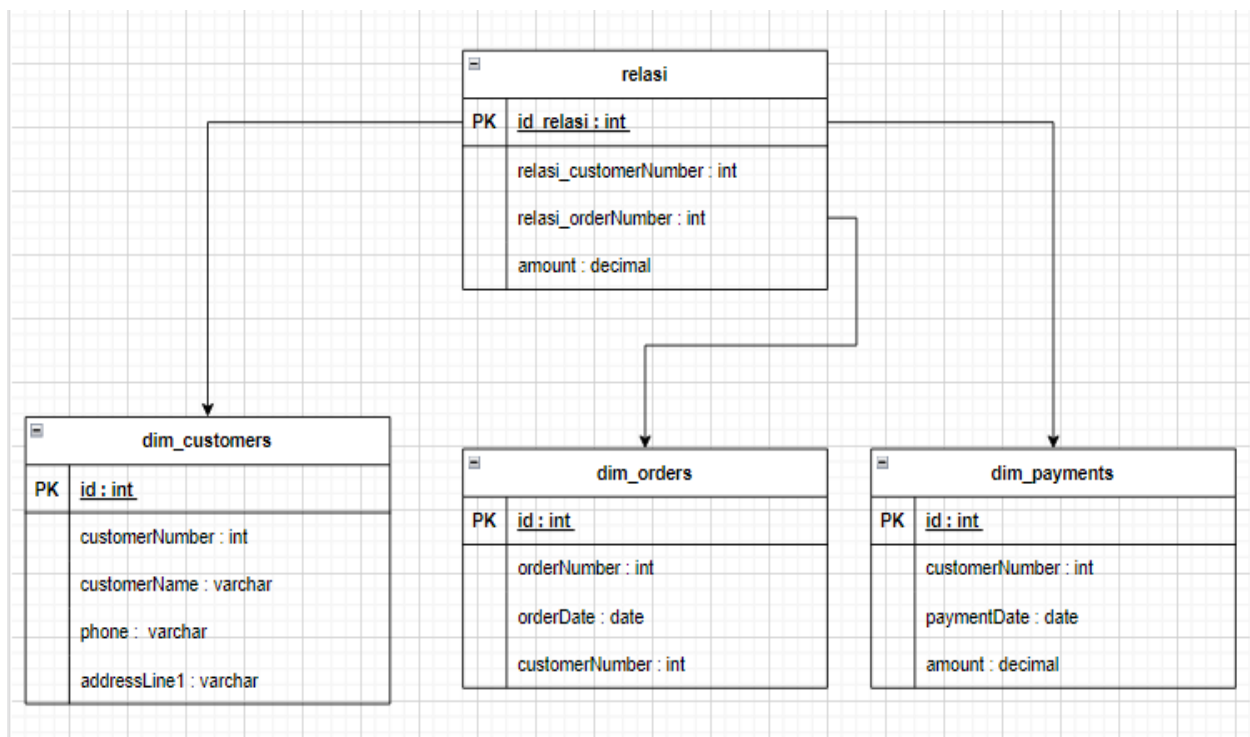
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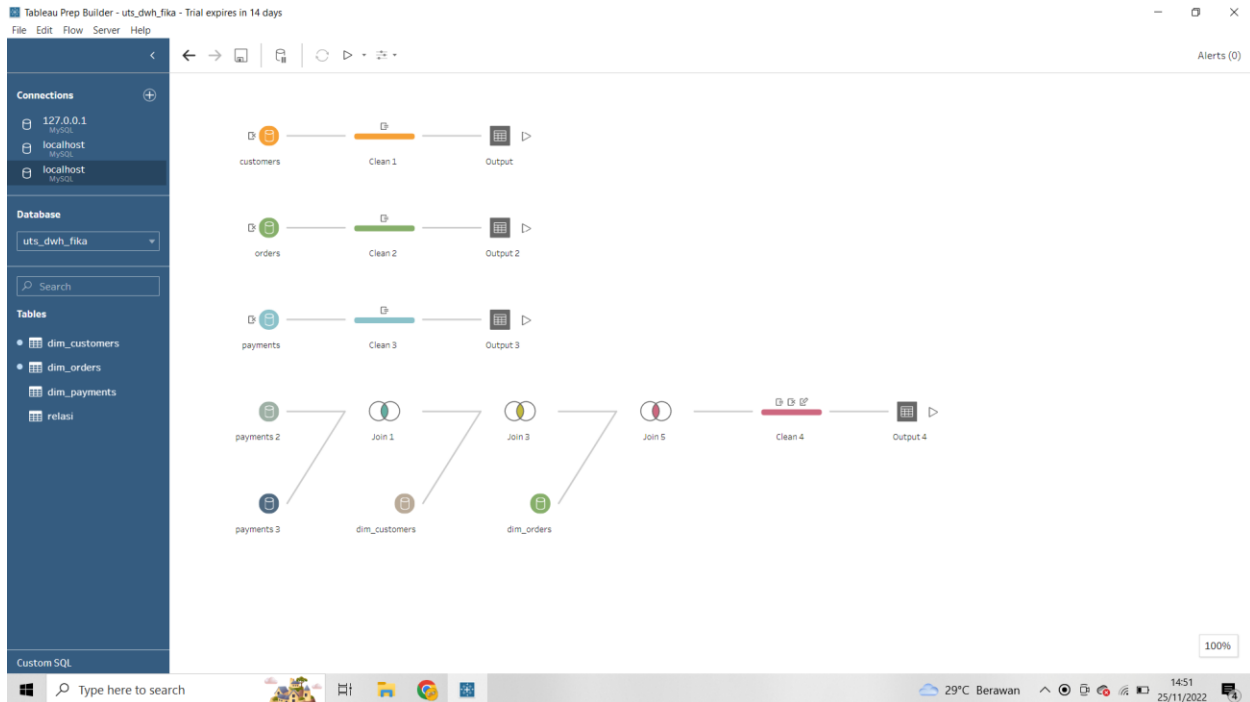
1. Desain Model Data Warehouse

Terdapat Desain Model Data Warehouse yang terdiri dari 1 Tabel Relasi yang dikelilingi oleh 3 Tabel Dimensi yang berkaitan dengan Tabel Relasi yaitu Tabel Dimensi Customers, Tabel Dimensi Orders, dan Tabel Dimensi Payments.



2. Proses ETL

Dilakukan proses clean pada setiap Tabel Dimensi yaitu Tabel Dimensi Customers, Tabel Dimensi Orders, Tabel Dimensi Payment. Kemudian dilakukan proses join yaitu menghubungkan Tabel Relasi dengan Tabel Dimensi lainnya. Proses ini terhubung dengan database dan hasil output dapat dilihat pada database.



3. Hasil Output Tabel Dimensi Customer

The screenshot shows a web browser displaying a database management tool interface. The URL is 'localhost/phpmyadmin/sql.php?db=uts_dwh_fika&table=dim_customers&pos=0'. The 'Table: dim_customers' is selected. The query 'SELECT * FROM `dim_customers`' is executed, showing 24 rows. The table data is as follows:

	id	customerNumber	customerName	phone	addressLine1
<input type="checkbox"/>	1	242	Alpha Cognac	61 77 6555	1 rue Alsace-Lorraine
<input type="checkbox"/>	2	168	American Souvenirs Inc	2035557845	149 Spinnaker Dr.
<input type="checkbox"/>	3	249	Amica Models & Co.	011-4988555	Via Monte Bianco 34
<input type="checkbox"/>	4	237	ANG Resellers	(91) 745 6555	Gran Via, 1
<input type="checkbox"/>	5	276	Anna's Decorations, Ltd	02 9936 8555	201 Miller Street
<input type="checkbox"/>	6	465	Anton Designs, Ltd.	+34 913 728555	c/ Gobelias, 19-1 Urb. La Florida
<input type="checkbox"/>	7	206	Asian Shopping Network, Co	+612 9411 1555	Suntec Tower Three
<input type="checkbox"/>	8	348	Asian Treasures, Inc.	2967 555	8 Johnstown Road
<input type="checkbox"/>	9	103	Atelier graphique	40 32 2555	54, rue Royale
<input type="checkbox"/>	10	471	Australian Collectables, Ltd	61-9-3844-6555	7 Allen Street
<input type="checkbox"/>	11	114	Australian Collectors, Co.	03 9520 4555	636 St Kilda Road

The bottom status bar shows 'Type here to search', system icons, and the date '29/11/2022'.

4. Hasil Output Tabel Dimensi Orders

Showing rows 0 - 24 (326 total, Query took 0.0008 seconds)

```
SELECT * FROM "dim_orders"
```

Options: ☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

Number of rows: 25 Filter rows: Search this table Sort by key: None

	id	orderNumber	orderDate	customerNumber
<input type="checkbox"/>	1	10100	2003-01-06	363
<input type="checkbox"/>	2	10101	2003-01-09	128
<input type="checkbox"/>	3	10102	2003-01-10	181
<input type="checkbox"/>	4	10103	2003-01-29	121
<input type="checkbox"/>	5	10104	2003-01-31	141
<input type="checkbox"/>	6	10105	2003-02-11	145
<input type="checkbox"/>	7	10106	2003-02-17	278
<input type="checkbox"/>	8	10107	2003-02-24	131
<input type="checkbox"/>	9	10108	2003-03-03	385
<input type="checkbox"/>	10	10109	2003-03-10	486
<input type="checkbox"/>	11	10110	2003-03-18	187

Console: Press Ctrl+Enter to execute query

```
>SELECT * FROM "dim_customers"
>SELECT * FROM "dim_orders"
```

5. Hasil Output Tabel Dimensi Payments

Showing rows 0 - 24 (273 total, Query took 0.0008 seconds)

```
SELECT * FROM "dim_payments"
```

Options: ☐ Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]

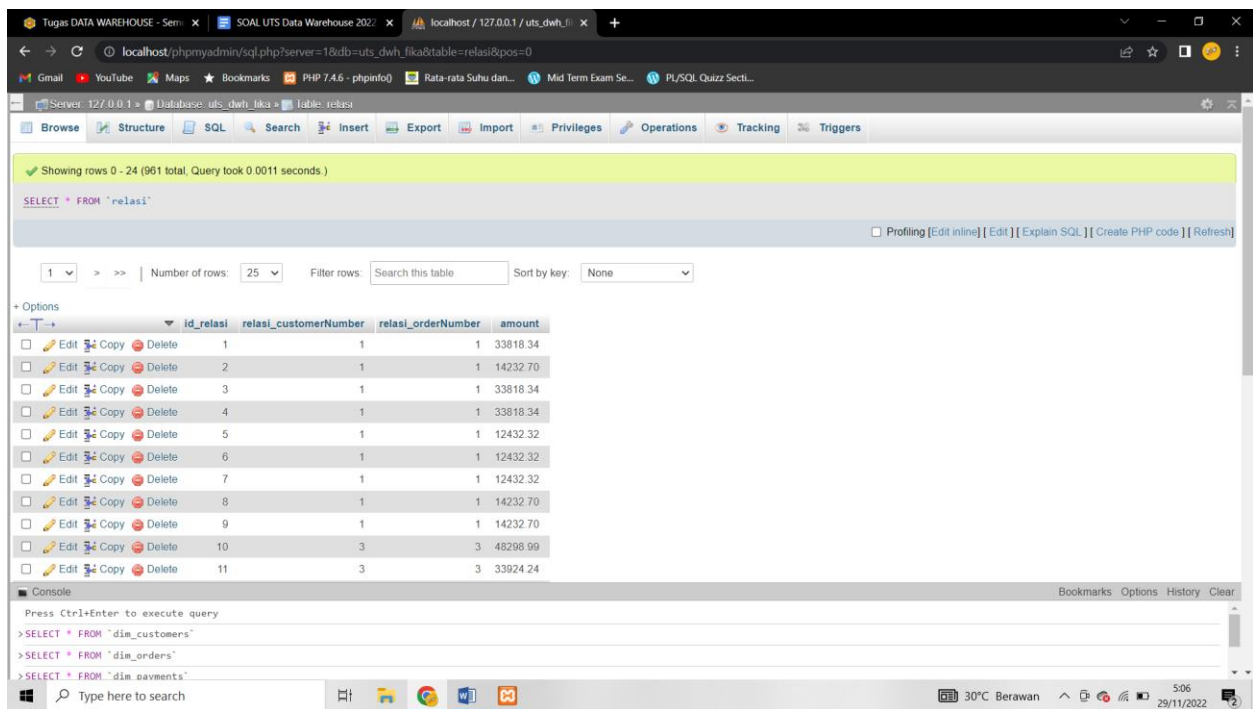
Number of rows: 25 Filter rows: Search this table Sort by key: None

	id	customerNumber	paymentDate	amount
<input type="checkbox"/>	1	363	2003-01-16	10224
<input type="checkbox"/>	2	128	2003-01-28	10549
<input type="checkbox"/>	3	181	2003-01-30	5495
<input type="checkbox"/>	4	121	2003-02-16	50219
<input type="checkbox"/>	5	145	2003-02-20	53959
<input type="checkbox"/>	6	141	2003-02-25	40206
<input type="checkbox"/>	7	278	2003-03-02	52152
<input type="checkbox"/>	8	385	2003-03-09	51001
<input type="checkbox"/>	9	131	2003-03-12	22293
<input type="checkbox"/>	10	486	2003-03-20	25833
<input type="checkbox"/>	11	187	2003-03-27	48426

Console: Press Ctrl+Enter to execute query

```
>SELECT * FROM "dim_customers"
>SELECT * FROM "dim_orders"
>SELECT * FROM "dim_payments"
```

6. Hasil Output Tabel Relasi



The screenshot displays a web-based database management system interface. The browser address bar shows the URL: `localhost/phpmyadmin/sql.php?server=1&db=uts_dwh&table=relasi&pos=0`. The interface includes a top navigation bar with tabs for Browse, Structure, SQL, Search, Insert, Export, Import, Privileges, Operations, Tracking, and Triggers. Below the navigation bar, a status bar indicates "Showing rows 0 - 24 (961 total, Query took 0.0011 seconds)". The main content area displays the results of a SQL query: `SELECT * FROM 'relasi'`. The results are presented in a table with the following columns: `id_relasi`, `relasi_customerNumber`, `relasi_orderNumber`, and `amount`. The table contains 11 rows of data. Each row has a set of icons (Edit, Copy, Delete) to the left of the first column. Below the table, there is a console area with the text "Press Ctrl+Enter to execute query" and three SQL queries: `>SELECT * FROM 'dim_customers'`, `>SELECT * FROM 'dim_orders'`, and `>SELECT * FROM 'dim_payments'`. The bottom of the screenshot shows a Windows taskbar with the search bar and system tray icons.

	<code>id_relasi</code>	<code>relasi_customerNumber</code>	<code>relasi_orderNumber</code>	<code>amount</code>
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	1	1	1	33818.34
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	2	1	1	14232.70
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	3	1	1	33818.34
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	4	1	1	33818.34
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	5	1	1	12432.32
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	6	1	1	12432.32
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	7	1	1	12432.32
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	8	1	1	14232.70
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	9	1	1	14232.70
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	10	3	3	48298.99
<input type="checkbox"/> Edit <input type="checkbox"/> Copy <input type="checkbox"/> Delete	11	3	3	33924.24