

Note: Please focus on the main logic and main feature!

(Splash screen and design are not scored)

Soal

Case

TheHarvelSt

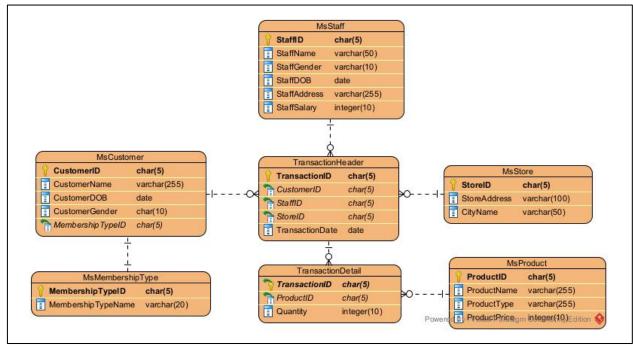


Figure 1. Database ERD

The HarvelSt is a bustling bakery known for its artisanal bread and decadent pastries, all made with locally sourced ingredients. With a cozy atmosphere and irresistible aromas, it's a beloved destination for those seeking delicious homemade treats in the heart of town. You, as a database administrator are asked to manage their database and perform some query based on the task below.

Halaman: 1 dari 5 Page 1 of 5 Display the Customer ID (obtained from CustomerID) and Customer Name (obtained from CustomerName) of customers who bought more than two items in a transaction.
 (EXCEPT, GROUP BY, HAVING)

	Customer ID	Customer Name
1	CU001	John Doe
2	CU002	Jane Smith
3	CU003	Michael Johnson
4	CU004	Emily Davis
5	CU005	David Wilson
6	CU009	Christopher Hall
7	CU013	Sophia Lopez
8	CU015	Mia Gonzalez
9	CU016	Alexander Hemandez
10	CU020	James Campbell

Display the Product ID (obtained from ProductID) and Product Name (obtained from ProductName) of each product with a price greater than the average price.
 (AVG)

	Product ID	Product Name
1	PR005	Black Forest Cake
2	PR006	Red Velvet Cake
3	PR007	Carrot Cake

3. Display Customer ID (obtained from CustomerID) with format 'Customer XXX', Customer Name (obtained from CustomerName) add 'Mr. ' if CustomerGender is 'Male' and 'Mrs. ' if CustomerGender is 'Female', Membership Type (obtained from MembershipType), Date of Birth (obtained from CustomerDOB with the format DD-Mon-YYYY ex: "15 Dec 2005") and Age (obtained from the calculated age based on CustomerDOB).

(REPLACE, CONCAT, UNION, CONVERT, DATEDIFF)

	Customer ID	Customer Name	Membership Type	Date of Birth	Age
1	Customer 005	Mr. David Wilson	Silver	08 Sep 1995	29
2	Customer 006	Mrs. Sarah Brown	Gold	25 Jul 1998	26
3	Customer 007	Mr. Robert Lee	Basic	17 Feb 2001	23
4	Customer 008	Mrs. Lisa Taylor	Silver	04 May 1999	25
5	Customer 012	Mr. Daniel Rodriguez	Silver	09 Aug 1997	27
6	Customer 013	Mrs. Sophia Lopez	Basic	24 Feb 2000	24
7	Customer 015	Mrs. Mia Gonzalez	Gold	27 Jun 1996	28
8	Customer 016	Mr. Alexander Hemandez	Basic	14 Sep 1998	26
9	Customer 017	Mrs. Isabella Flores	Silver	22 Dec 1999	25
10	Customer 018	Mr. William Ramirez	Gold	31 Jul 2002	22

Halaman : 2 dari 5 Page 2 of 5 Display the Best Seller Product (obtained from the most sold product in 2023) and Total
 Product Sold (obtained from the quantity of product sold).

(SUM, YEAR, TOP, ORDER BY)

5. Display **First Name** (obtained from the **first name** of every **staff**), **Last Name** (obtained from the **last name** of every **staff**) and **Total Transaction** (obtained from **transaction amount** done by **every staff**).

(LEFT, RIGHT, CHARINDEX, REVERSE, COUNT)

	First Name	Last Name	Total Transaction
1	Alexander	Hemandez	4
2	Amanda	Clark	3
3	Christopher	Hall	6
4	David	Wilson	3
5	Emily	Johnson	1
6	Ethan	Perez	2
7	Jessica	Davis	2
8	John	Smith	2
9	Lisa	Taylor	3
10	Mia	Gonzalez	4
11	Michael	Brown	3
12	Oliver	Hamis	5
13	Robert	Lee	5
14	Sarah	Martinez	1
15	Sophia	Lopez	6

 Display Customer Name (obtained from CustomerName) and Total Coffee Purchased (obtained from the transaction amount done where the product type is coffee) for male customers (obtained from CustomerGender).

(COUNT)

	CustomerName	Total Coffee Purchased
1	Daniel Rodriguez	4
2	Ethan Perez	1
3	John Doe	2
4	Michael Johnson	1
5	Robert Lee	1
6	William Ramirez	5

Halaman: 3 dari 5 Page 3 of 5 Display Membership Type (obtained from MembershipTypeName in uppercased format)
and Customers (obtained from the customer amount per membership type).

(UPPER, COUNT)

	Membership Type	Customers
1	BASIC	7
2	GOLD	6
3	SILVER	7

8. Display Customer Name (obtained from CustomerName in lowercased format) and Total Spending (obtained from total spending per customer starts with 'Rp. ' and ends with ',-'), sort the result based on Total Spending in descending order.

(LOWER, CONCAT, SUM, ORDER BY)

	Customer Name	Total Spending
1	ethan perez	Rp. 319000,-
2	daniel rodriguez	Rp. 212000,-
3	william ramirez	Rp. 207000,-
4	sarah brown	Rp. 204000,-
5	olivia martinez	Rp. 196000,-
6	lisa taylor	Rp. 195000,-
7	robert lee	Rp. 187000,-
8	sofia adams	Rp. 167000,-
9	isabella flores	Rp. 133000,-
10	amanda clark	Rp. 125000,-
11	sophia lopez	Rp. 93000,-
12	alexander hemandez	Rp. 80000,-
13	john doe	Rp. 53000,-
14	mia gonzalez	Rp. 45000,-
15	michael johnson	Rp. 32000,-
16	christopher hall	Rp. 30000,-
17	david wilson	Rp. 30000,-
18	emily davis	Rp. 30000,-

 Display First Name (obtained from the first name from every staff), Last Name (obtained from last name from every staff), Total Earning 2023 (obtained from calculated sold product price in 2023), Total Earning 2024 (obtained from calculated sold product price in 2024).

(LEFT, REVERSE, SUBSTRING, CHARINDEX, CONCAT, SUM, CASE WHEN, YEAR)

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	First Name	Last Name	Total Eaming 2023	Total Eaming 2024
1	Jessica	Davis	Rp. 30000,-	Rp. 53000,-
2	Ethan	Perez	Rp. 32000,-	Rp. 0,-
3	Mia	Gonzalez	Rp. 167000,-	Rp. 32000,-
4	Alexander	Hemandez	Rp. 60000,-	Rp. 90000,-
5	John	Smith	Rp. 30000,-	Rp. 75000,-
6	David	Wilson	Rp. 32000,-	Rp. 105000,-
7	Sarah	Martinez	Rp. 53000,-	Rp. 0,-
8	Robert	Lee	Rp. 148000,-	Rp. 93000,-
9	Emily	Johnson	Rp. 45000,-	Rp. 0,-
10	Lisa	Taylor	Rp. 156000,-	Rp. 0,-
11	Christopher	Hall	Rp. 55000,-	Rp. 102000,-
12	Amanda	Clark	Rp. 164000,-	Rp. 0,-
13	Michael	Brown	Rp. 80000,-	Rp. 100000,-
14	Oliver	Hamis	Rp. 260000,-	Rp. 0,-
15	Sophia	Lopez	Rp. 240000,-	Rp. 136000,-

10. Display Customer Name (obtained from CustomerName), Total Transactions (obtained from total transactions made) for customers whose first name contains 'Isabella'.(COUNT)

	CustomerName	Total Transactions
1	Isabella Flores	2

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