

Materi

Material

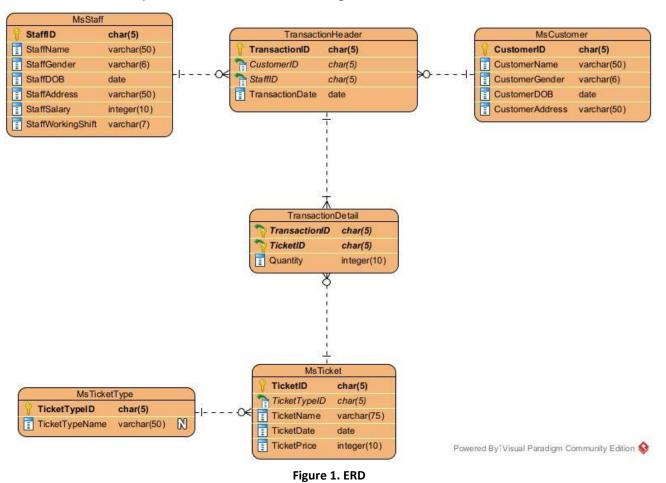
DML Basic

Soal

Case

Jallhara

Jallhara is a well-known musical theater in town, known for the spectatular art show for years. The theater has a lot of show transactions and in need of a database to manage all the transactions. The customer can buy more than one ticket in a single transaction.



Halaman: 1 dari 6 Page 1 of 6 1. Display CustomerName, TicketName, CustomerAddress, and TicketPrice for every Customer whose address ended with the letter 'e' and age bigger than 15.

(LIKE, YEAR, CURRENT_TIMESTAMP, JOIN)

	CustomerName	TicketName	CustomerAddress	TicketPrice
1	Thacher Han	The Music of Lord of the Rings and Beyond	68216 Lunder Drive	1500000
2	Thacher Han	The Sound Inside	68216 Lunder Drive	1300000
3	Raine Lambal	The Music of Lord of the Rings and Beyond	9558 Sheridan Lane	1500000
4	Raine Lambal	Les Sylphides	9558 Sheridan Lane	1350000
5	Teriann Shotbolt	The Miraculous Mandarin	27 Sommers Drive	1000000
6	Teriann Shotbolt	Vivaldi: Summer	27 Sommers Drive	1250000
7	Teriann Shotbolt	Les Arts Florissants: Charpentier at Christmas	27 Sommers Drive	545000
8	Teriann Shotbolt	Ronja Räubertochter	27 Sommers Drive	950000
9	Daffi Broadbere	The Music of Lord of the Rings and Beyond	943 Prairie Rose Drive	1500000
10	Daffi Broadbere	The Sound Inside	943 Prairie Rose Drive	1300000

Create a non-clustered index named 'IX_MsTicket_TicketName' for column TicketName in MsTicket table.

(CREATE INDEX, NONCLUSTERED)

3. Display **TicketID**, **TicketName**, **TicketPrice** (obtained from **TicketPrice** in **Indonesian Rupiah's** format) for every **Ticket** which **name length** is **less than or equal to 20**.

(CONCAT, LEN)

	TicketID	TicketName	TicketPrice
1	TC002	The Good Grooves	Rp.1650000,00
2	TC005	Beethoven Ninth	Rp.1250000,00
3	TC006	The Sound Inside	Rp.1300000,00
4	TC007	Swan Lake	Rp.1650000,00
5	TC011	Les Sylphides	Rp.1350000,00
6	TC012	Srimpi	Rp.950000,00
7	TC013	Ronja Räubertochter	Rp.950000,00
8	TC014	Vivaldi: Summer	Rp.1250000,00
9	TC015	Roméo et Juliette	Rp.175000,00

Halaman: 2 dari 6 Page 2 of 6 4. Display **TicketID** (obtained from **TicketID** by **replacing** '**TC**' with '**Ticket**'), **TicketName**, **TicketDate** (obtained from **TicketDate** in '**DD Mon YY**' format), and **TicketPrice** for every **Transaction** that happened in **year 2022**.

(REPLACE, CONVERT, YEAR, JOIN)

	TicketID	TicketName	TicketDate	TicketPrice
1	Ticket 003	The Music of Zimmer vs Williams	18 Oct 23	425000
2	Ticket 001	Les Arts Florissants: Charpentier at Christmas	04 Sep 23	545000
3	Ticket 001	Les Arts Florissants: Charpentier at Christmas	04 Sep 23	545000
4	Ticket 013	Ronja Räubertochter	29 Jun 22	950000
5	Ticket 004	The Music of Lord of the Rings and Beyond	27 Mar 22	1500000
6	Ticket 006	The Sound Inside	30 Mar 22	1300000
7	Ticket 007	Swan Lake	09 Dec 22	1650000
8	Ticket 008	The Miraculous Mandarin	12 Oct 23	1000000
9	Ticket 014	Vivaldi: Summer	10 Mar 23	1250000
10	Ticket 007	Swan Lake	09 Dec 22	1650000

5. Create a view named 'Senior_Female_Staff' to display StaffID, StaffName (obtained from StaffName by adding 'Mr./Mrs. 'and followed by StaffName in Uppercase format), StaffAddress, and StaffWorkingShift (obtained from the first letter from StaffWorkingShift) for every Staff whose gender is 'Female' and handled Transaction with quantity more than or equal to 15.

(CREATE VIEW, CONCAT, UPPER, LEFT, JOIN)

	StaffID	StaffName	StaffAddress	StaffWorkingShift
1	SF007	Ms./Mrs. MELANY BRANGAN	99 Sachs Way	N
2	SF009	Ms./Mrs. GILBERTA O'HANLEY	52832 Goodland Avenue	M
3	SF009	Ms./Mrs. GILBERTA O'HANLEY	52832 Goodland Avenue	M
4	SF009	Ms./Mrs. GILBERTA O'HANLEY	52832 Goodland Avenue	M
5	SF007	Ms./Mrs. MELANY BRANGAN	99 Sachs Way	N
6	SF003	Ms./Mrs. CAMILLA SHEARS	6045 Leroy Trail	N
7	SF003	Ms./Mrs. CAMILLA SHEARS	6045 Leroy Trail	N
8	SF003	Ms./Mrs. CAMILLA SHEARS	6045 Leroy Trail	N

Halaman: 3 dari 6 Page 3 of 6 Display TransactionID, TransactionDate, CustomerName, TicketName, and CustomerAge (obtained from the current age of Customer) for every Transaction that handled by Staff SF003 and SF008.

(DATEDIFF, YEAR, CURRENT_TIMESTAMP, IN, JOIN)

	TransactionID	TransactionDate	CustomerName	TicketName	CustomerAge
1	TD002	2022-07-20	Libby Schmidt	The Music of Zimmer vs Williams	20
2	TD013	2022-06-10	Daffi Broadbere	The Music of Lord of the Rings and Beyond	20
3	TD013	2022-06-10	Daffi Broadbere	The Sound Inside	20
4	TD015	2022-11-06	Dewie Zaczek	Swan Lake	19
5	TD015	2022-11-06	Dewie Zaczek	The Miraculous Mandarin	19
6	TD015	2022-11-06	Dewie Zaczek	Vivaldi: Summer	19
7	TD019	2023-01-01	Rafael de Guise	The Miraculous Mandarin	26

7. Display **TransactionID** for every **Transaction** which **date** is **bigger than or equal to 15**. Make sure there is **no duplicated TransactionID**.

(DISTINCT, DAY, JOIN)

	TransactionID	
1	TD002	
2	TD006	
3	TD011	
4	TD014	

Halaman: 4 dari 6 Page 4 of 6 8. Display CustomerName, StaffID (obtained from StaffID by replacing 'SF' with 'Staff '), CustomerAge (obtained from the current age of Customer), TicketName, and TotalTicketPrice (obtained from Quantity * TicketPrice in Indonesian Rupiah's format) for every Transaction which Quantity is less than 15 and Staff who was born before June.

(REPLACE, DATEDIFF, YEAR, CURRENT_TIMESTAMP, FORMAT, MONTH, JOIN)

	CustomerName	StaffID	CustomerAge	TicketName	TotalTicketPrice
1	Libby Schmidt	Staff 003	20	The Music of Zimmer vs Williams	Rp850.000,00
2	Daffi Broadbere	Staff 003	20	The Sound Inside	Rp2.600.000,00
3	Gilles Keward	Staff 005	19	Beethoven Ninth	Rp15.000.000,00
4	Dewie Zaczek	Staff 003	19	Swan Lake	Rp6.600.000,00
5	Libby Schmidt	Staff 001	20	Swan Lake	Rp13.200.000,00

9. Display CustomerName, Ticket (obtained from the first word of TicketTypeName followed by ': 'and TicketName), and TicketMonth (obtained from the month name of TicketDate) for every TicketTypeName that ended with 'Music'.

(CONCAT, SUBSTRING, CHARINDEX, DATENAME, MONTH, LIKE, JOIN)

	CustomerName	Ticket	TicketMonth
1	Libby Schmidt	Movie : The Music of Zimmer vs Williams	October
2	Thacher Han	Movie : The Music of Lord of the Rings and Beyond	March
3	Shell Stebbings	Jazz : Les Arts Florissants: Charpentier at Christm	September
4	Raine Lambal	Movie : The Music of Lord of the Rings and Beyond	March
5	Teriann Shotbolt	Classical : Vivaldi: Summer	March
6	Max Demelt	Christmas: The Good Grooves	April
7	Teriann Shotbolt	Jazz : Les Arts Florissants: Charpentier at Christm	September
8	Daffi Broadbere	Movie : The Music of Lord of the Rings and Beyond	March
9	Gilles Keward	Movie : The Music of Zimmer vs Williams	October
10	Gilles Keward	Classical : Beethoven Ninth	July
11	Dewie Zaczek	Classical : Vivaldi: Summer	March
12	Richy Stripling	Movie : The Music of Lord of the Rings and Beyond	March

Halaman: 5 dari 6 Page 5 of 6 10. Display CustomerName, CoupunCode (obtained from TransactionID by replacing the first two letters with the first two letters from TicketTypeName in Uppercase format), and TicketName for every Transaction that happened in the weekend (Friday, Saturday, and Sunday) and quantity less than 10.

(REPLACE, LEFT, UPPER, DATENAME, WEEKDAY, IN, JOIN)

	CustomerName	CouponCode	TicketName
1	Daffi Broadbere	TH013	The Sound Inside
2	Dewie Zaczek	CL015	Swan Lake
3	Libby Schmidt	CL018	Swan Lake

[&]quot;Wonderful things can be achieved when there's teamwork, hard work, and perseverance" - 22-2

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