
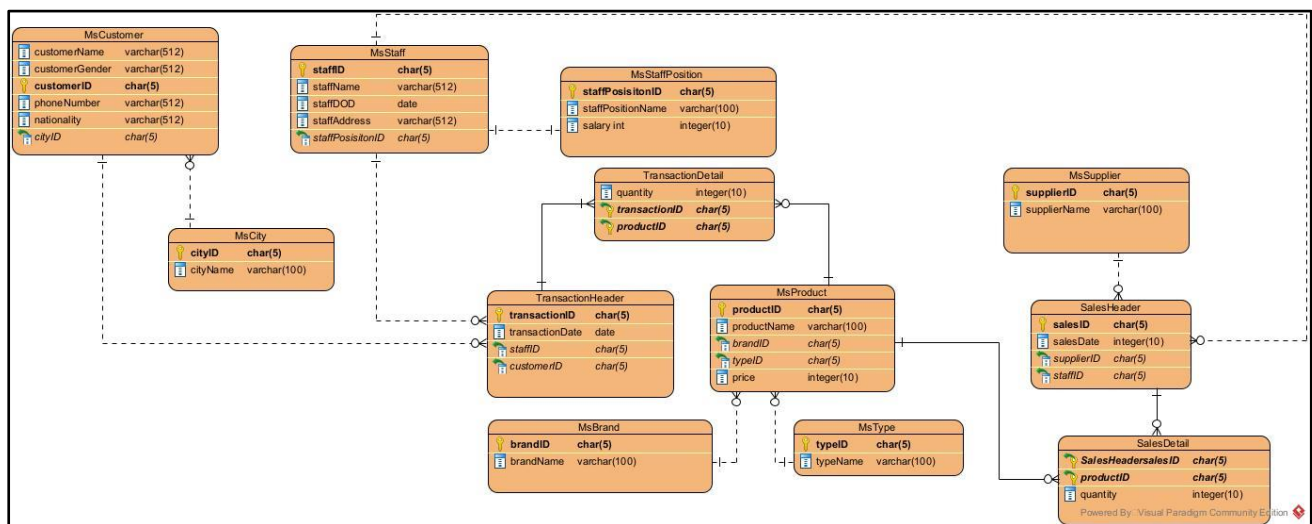


Assignment Case	
DBH2	
Periode Berlaku Semester Genap 2022/2023 Valid on Even Year 2022/2023	Software Laboratory Center Assistant Recruitment 23-2

Note: Please focus on the main logic and main feature!
 (Splash screen and design are not scored)

Soal

Case



Updated HI-Toys

Due to the popularity of HI-Toys, the manager of HI-Toys decided to ask for help from the database administrator to tidy up the existing HI-Toys database and retrieve some important data to decide whether HI-Toys will open a branch overseas or not, you as the database administrator HI-Toys manager's choice is asked to perform a query like the following,

1. **Display** the first **4 letters** of the **day** from **transactionDate** as **Date name**, **productName** (obtained from **productName** in **lower case format**), and **quantity** whose transactions are made on **Monday or Thursday or Wednesday**.

(LEFT, UPPER, DATENAME, LOWER, IN)

	Date Name	productName	quantity
1	MOND	Silwolf	3
2	MOND	Silwolf	7
3	WEDN	Geo Emperor	34
4	THUR	Amored Core SunShine	3
5	MOND	Primer White P01	2
6	THUR	The Flash	6
7	MOND	Aerial Gundam	7
8	THUR	Super Avante	8
9	WEDN	Sanding Board	4
10	WEDN	Silwolf	2
11	WEDN	Iron Man Mark 50	56
12	MOND	Iron Man Mark 50	2
13	WEDN	Luffy	2
14	WEDN	The Flash	5
15	THUR	Skin Beige C47	56
16	WEDN	Clamp Holding Handle	6
17	WEDN	Eva Yellow C54	7
18	THUR	The Flash	5
19	MOND	Izuku Midoriya	3
20	THUR	Geo Emperor	78
21	MOND	Rowdy Bull	2
22	MOND	Beat Magnum	45
23	THUR	Stepless Circular Cutter	34
24	WEDN	Stainless Silver 1000	56
25	THUR	Super Avante	6

Figure 1. Result

2. Add new column in **MsSupplier** table with column specification **supplierCityID CHAR(5)** and add foreign key to **cityID** column from **MsCity** table.

(ALTER, LIKE)

	supplierID	supplierName	supplierCityID
1	SP001	Unicorn Toys	NULL
2	SP002	Multi Toys	NULL
3	SP003	Hell Duck	NULL
4	SP004	J-Shop	NULL
5	SP005	Gunplatown	NULL
6	SP006	Terminal Tamiya	NULL
7	SP007	Omocha Hobby	NULL
8	SP008	Felo Geek Store	NULL
9	SP009	Wahkhilaf	NULL

Figure 2. Result

3. Update **supplierCityID** to **CI001** if **supplierName** is 2 words or more.

(UPDATE, CHARINDEX)

	supplierID	supplierName	supplierCityID
1	SP001	Unicorn Toys	CI001
2	SP002	Multi Toys	CI001
3	SP003	Hell Duck	CI001
4	SP004	J-Shop	NULL
5	SP005	Gunplatown	NULL
6	SP006	Terminal Ta...	CI001
7	SP007	Omocha Ho...	CI001
8	SP008	Felo Geek ...	CI001
9	SP009	Wahkhilaf	NULL

Figure 3. Result

4. Display salesID, salesDate, supplierName, and supplierCityID as CityID. If the contents of supplierCityID is null then display "Empty", where salesDate and January 1st, 2021, has less than and equal to 7-month difference.

(ISNULL, ABS, DATEDIFF)

	salesID	salesDate	supplierName	CityID
1	SL002	2021-05-10	J-Shop	Empty
2	SL006	2021-06-23	Multi Toys	CI001
3	SL007	2021-07-21	Wahkhilaf	Empty
4	SL008	2021-04-21	Multi Toys	CI001
5	SL009	2021-08-27	Unicom Toys	CI001
6	SL002	2021-05-10	J-Shop	Empty
7	SL007	2021-07-21	Wahkhilaf	Empty
8	SL008	2021-04-21	Multi Toys	CI001
9	SL006	2021-06-23	Multi Toys	CI001
10	SL002	2021-05-10	J-Shop	Empty
11	SL002	2021-05-10	J-Shop	Empty
12	SL009	2021-08-27	Unicom Toys	CI001
13	SL008	2021-04-21	Multi Toys	CI001
14	SL007	2021-07-21	Wahkhilaf	Empty
15	SL009	2021-08-27	Unicom Toys	CI001
16	SL006	2021-06-23	Multi Toys	CI001
17	SL002	2021-05-10	J-Shop	Empty
18	SL009	2021-08-27	Unicom Toys	CI001

Figure 4. Result

5. Shows **Customer Initial** (obtained from **every first character** in the **first 2 words** in the **customer's name**), also shows the actual **customer's name** as **customerName**, **nationality**, **transactionDate**, **staffID**, and the **customer's city name** as **cityName** where the **customer's name** is **at least 2 words** or **more** and the **customer's city** in **Kudus, Semarang, Jakarta**, or **customer nationality** is **English**.

(CONCAT, LEFT, SUBSTRING, CHARINDEX, IN)

	Customer Initial	customerName	nationality	cityName	transactionDate	staffID
1	RD	Ryu Danniell	English	Rembang	2022-01-01	ST001
2	JM	Jannette Miyashita	Japanese	Kudus	2021-05-10	ST009
3	RD	Ryou Dianne Charles	Indonesian	Jakarta	2022-11-12	ST001
4	JV	Jusuf Verochka	Indonesian	Semarang	2022-09-03	ST010
5	IT	Ilary Therese Enid	English	Pati	2022-10-13	ST003
6	KM	Kaiden Meredith Nona Feen	Japanese	Semarang	2021-07-21	ST001
7	DT	Davie Trey Georgene	English	Pati	2022-08-27	ST007
8	SV	Shin Vikentiy Victors	German	Kudus	2022-09-21	ST008

Figure 5. Result

6. Insert a new **supplier** with **supplierID SP010**, **GunplaShop** as the **store name** and **CI002** as **supplercityID**.

(INSERT)

	supplierID	supplierName	supplierCityID
1	SP001	Unicorn Toys	CI001
2	SP002	Multi Toys	CI001
3	SP003	Hell Duck	CI001
4	SP004	J-Shop	NULL
5	SP005	Gunplatown	NULL
6	SP006	Terminal Ta...	CI001
7	SP007	Omocho Ho...	CI001
8	SP008	Felo Geek ...	CI001
9	SP009	Wahkhilaf	NULL
10	SP010	GunplaShop	CI002

Figure 6. Result

7. Display salesID, staffID, productID, salesDate with format DD MM YYYY and month of salesDate translated into Italian. Where the purchase occurred in June and above and sort the results by date of sale in ascending order.

(CONVERT, FORMAT, MONTH, ORDER BY)

	SalesID	staffID	productID	Date	month name in Italy
1	SL006	ST008	PR065	23-06-21	giugno
2	SL006	ST008	PR049	23-06-21	giugno
3	SL006	ST008	PR011	23-06-21	giugno
4	SL007	ST003	PR034	21-07-21	luglio
5	SL007	ST003	PR056	21-07-21	luglio
6	SL007	ST003	PR054	21-07-21	luglio
7	SL009	ST004	PR054	27-08-21	agosto
8	SL009	ST004	PR023	27-08-21	agosto
9	SL009	ST004	PR012	27-08-21	agosto
10	SL009	ST004	PR034	27-08-21	agosto
11	SL004	ST012	PR072	03-09-21	settembre
12	SL004	ST012	PR072	03-09-21	settembre
13	SL004	ST012	PR004	03-09-21	settembre
14	SL010	ST006	PR045	21-09-21	settembre
15	SL010	ST006	PR012	21-09-21	settembre
16	SL001	ST005	PR002	25-09-21	settembre
17	SL001	ST005	PR045	25-09-21	settembre
18	SL001	ST005	PR065	25-09-21	settembre
19	SL001	ST005	PR011	25-09-21	settembre
20	SL005	ST011	PR045	13-10-21	ottobre
21	SL005	ST011	PR023	13-10-21	ottobre
22	SL005	ST011	PR013	13-10-21	ottobre
23	SL005	ST011	PR056	13-10-21	ottobre
24	SL005	ST011	PR034	13-10-21	ottobre
25	SL005	ST011	PR005	13-10-21	ottobre
26	SL005	ST011	PR023	13-10-21	ottobre
27	SL005	ST011	PR012	13-10-21	ottobre
28	SL003	ST006	PR006	12-11-21	novembre
29	SL003	ST006	PR012	12-11-21	novembre
30	SL003	ST006	PR045	12-11-21	novembre

Figure 7. Result (30 rows)

8. Display product price as price, brandName and product name that is formed from adding HG in front of product name if the typeName is 1/144 model kit, adding MG in front of product name if the typeName is 1/100 model kit and adding PG in front of product name if the typeName is 1/60 model kit. Where the typeName is 1/144 model kit, or 1/100 model kit or 1/60 model kit.

(CASE, IN, CONCAT)

	Price	brandName	product name
1	230000	Bandai	HG Aerial Gundam
2	210000	Bandai	HG Unicorn Gundam
3	800000	Bandai	HG Sinanju Gundam
4	400000	Bandai	MG Sazabi
5	500000	Bandai	MG RX-78 Gundam
6	670000	Bandai	MG RX-78-2 Gundam
7	900000	Bandai	MG Unicorn Gundam Ver.Ka
8	560000	Bandai	PG Hi Nu Gundam Ver.Ka
9	440000	Bandai	MG ZZ Gundam
10	540000	Bandai	HG Z Gundam
11	900000	Aoshima	PG GT R Nissan
12	450000	Aoshima	PG Skyline GT R R343
13	230000	Aoshima	PG Skyline 2000GT
14	402000	Kotobukiya	HG Armored Core Verdict Day
15	230000	Kotobukiya	HG Armored Core SunShine

Figure 8. Result

9. Display salesID, staffID, productID, month name (obtained from the month of salesDate in string format and supplierName), where month of salesDate has 'u' as the second letter and sort by salesDate in ascending order.

(DATENAME, LIKE, MONTH, ORDER BY)

	SalesID	staffID	productID	month name	supplierName
1	SL006	ST008	PR065	June	Multi Toys
2	SL006	ST008	PR049	June	Multi Toys
3	SL006	ST008	PR011	June	Multi Toys
4	SL007	ST003	PR034	July	Wahkhilaf
5	SL007	ST003	PR056	July	Wahkhilaf
6	SL007	ST003	PR054	July	Wahkhilaf
7	SL009	ST004	PR054	August	Unicom Toys
8	SL009	ST004	PR023	August	Unicom Toys
9	SL009	ST004	PR012	August	Unicom Toys
10	SL009	ST004	PR034	August	Unicom Toys

Figure 9. Result

10. Display custom ID (obtained from **productID** where the **first 2 letters** are replaced by the **first 2 letters of brandName**), **brandName**, **productName**, and **transactionID**.
(CONCAT, SUBSTRING, CHARINDEX, REPLACE, LEFT)

	custom ID	brandName	productName	transactionID
1	ZT045	ZD Toys	Iron Man Mark 50	TR001
2	TT001	Tamiya	Cooper Fang	TR001
3	TT002	Tamiya	Silwolf	TR002
4	TT006	Tamiya	Beat Magnum	TR004
5	TT002	Tamiya	Silwolf	TR002
6	TT008	Tamiya	Geo Emperor	TR010
7	KK053	Kotobukiya	Armored Core ...	TR008
8	AA060	Acrylo	Primer White P01	TR002
9	HT024	Hot Toys	Captain Marvel	TR009
10	HT023	Hot Toys	The Flash	TR005
11	BB009	Bandai	Aerial Gundam	TR002
12	TT004	Tamiya	Super Avante	TR008
13	AA056	Acrylo	Eva Yellow C54	TR001
14	DD072	DSPIAE	Sanding Board	TR010
15	ZT045	ZD Toys	Iron Man Mark 50	TR004
16	TT002	Tamiya	Silwolf	TR006
17	DD067	DSPIAE	Stepless Circul...	TR001
18	ZT045	ZD Toys	Iron Man Mark 50	TR006
19	ZT045	ZD Toys	Iron Man Mark 50	TR002
20	BB034	Banpresto	Naruto	TR009
21	BB032	Banpresto	Luffy	TR010
22	HT023	Hot Toys	The Flash	TR010
23	AA059	Acrylo	Skin Beige C47	TR005
24	DD071	DSPIAE	Clamp Holding ...	TR006
25	AA056	Acrylo	Eva Yellow C54	TR007

Figure 10. Result (37 rows)