


Practicum Final Exam – Odd Semester Year 2022/2023			
Subject    COMP6799001 - Database Technology			
Class     : B201		Start Date     : 04 January 2023	
Lecture : D6515 - Hendri, S.Kom, M.T.I.	Start Time     : 07:20		
	End Date       : 04 January 2023		
	End Time       : 09:00		

### PERATURAN UJIAN:

#### *Exam Regulations:*

- Peserta ujian tidak diperkenankan untuk bekerja sama dengan peserta ujian lainnya.  
*Students are not allowed to discuss and/or cooperate with other students.*
- Peserta ujian tidak diperkenankan untuk membuka dan/atau menyalin jawaban dari buku, catatan, video, dan jenis referensi lainnya.  
*Students are not allowed to open and/or copy answer from books, notes, videos, and other references.*
- Peserta ujian tidak diperkenankan untuk membuka dan/atau menyalin jawaban dari internet.  
*Students are not allowed to open and/or copy answer from the internet.*
- Asisten berhak memberikan nilai nol bagi peserta ujian yang melakukan tindakan kecurangan.  
*Assistant may give zero score for any student who does any cheating actions.*
- Jawaban yang dapat diterima dan dinilai adalah jawaban yang dikumpulkan sebelum batas waktu yang telah ditentukan.  
*The answer must be submitted before the designated deadline to be accepted and graded.*
- Jika Anda tidak membaca peraturan ini, maka Anda dianggap sudah membaca dan menyetujuinya.  
*By taking this exam, you agree to these regulations, regardless of whether you have read it or not.*



### **SOFTWARE YANG DIGUNAKAN:**

*This exam uses the following software:*

- XAMPP 8.0.7
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### **FILE YANG DIKUMPULKAN:**

*The following files must be submitted:*

- SQL
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## PERHATIAN!

*Attention!*

- Apabila jawaban yang dikumpulkan tidak sesuai dengan tema soal, maka akan nilai akan dinolkan.

*Submitting an answer with a different theme from the given case will result in a score of zero.*

- Jawaban akan dinilai berdasarkan teknik yang diajarkan dalam praktikum dengan menggunakan software yang telah ditentukan.

*The scoring will be based on the materials taught during the practicum classes using the designated software. Using different software than requested may result in your answer not being graded.*

- Kompres jawaban yang akan diunggah dengan format [NIM]-[NAMA].zip.

*Compress all files that will be uploaded. The file name and extension must use the following format: [NIM]-[NAME].zip.*

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**Soal**  
Case

## SweetSully

**SweetSully** is a new yogurt brand in Jakarta. We offer many variations of yogurt flavors. We provide sales transaction for every customer that wants to buy yogurt that will be handled by a staff. Customer can buy more than one yogurt in a single transaction.

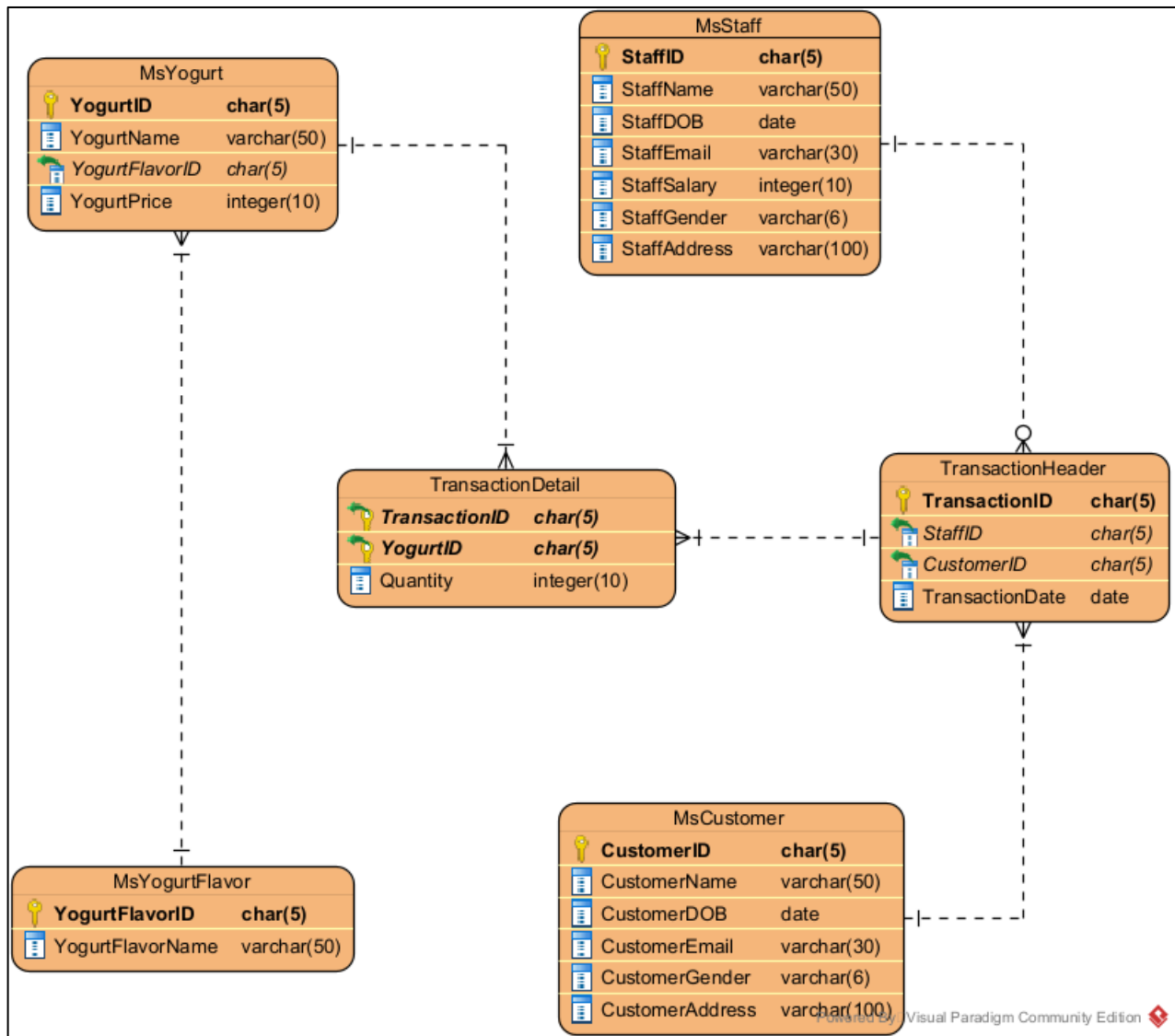


Figure 1. SweetSully ERD

**Notes**

- Open **create+insert.sql** file (attached with the case), then **execute** the file on **MySQL**
- Please **include the number of the question** in you answer SQL file.

1. **Import** and **use** the database **using SQL query**.

(USE)

2. Display **YogurtName**, and **YogurtFlavorName** for every flavor that **contains the word 'Chocolate'**.

(LIKE)

YogurtName	Flavor
Phorcys	Coffee Chocolate Almond
Lygdamis	Caramel Chocolate Pecan
Tydeus	Mexican Chocolate

3. Display **Name** (obtained from **CustomerName** in **lowercase format**) and **CustomerGender** for every **customer** that has the **gender of 'Female'**. Then, **combine** the data with **Name** (obtained from **StaffName** in **lowercase format**) and **StaffGender** for every **staff** that has the **gender of 'Female'**.

(LOWER, UNION, IN)

Name	CustomerGender
eliza mcdonnell	Female
eadie prosser	Female
alicja dunne	Female
tilly-mae burrows	Female
ayush haley	Female
milosz koch	Female
kieren almond	Female
josephine morgan	Female
esther collins	Female
rebekka kane	Female
miruna lim	Female
shaurya spooner	Female

4. Display **ID** (obtained from **CustomerID**), **Name** (obtained from **CustomerName** in **uppercase format**), and **Transaction Date** (obtained from **Transaction Date** in **MM DD YYYY format**) for every transaction that **happened in year 2021** and with the **customer gender of 'Male'**. Then, **combine** the data with **ID** (obtained from **StaffID**), **Name** (obtained from **StaffName** in **uppercase format**), and **Transaction Date** (obtained from **Transaction Date** in **MM DD YYYY format**) for every transaction that **happened in year 2021** and with the **staff gender of 'Male'**.

(YEAR, UPPER, DATE\_FORMAT, UNION)

ID	Name	Transaction Date
CU003	MAGNUS HOUGH	October 01 2021
CU006	DONNELL OBRIEN	November 01 2021
CU008	MILLER ZIMMERMAN	November 12 2021
CU009	FARHAN RENNIE	December 20 2021
ST002	BUDDY BOOKER	October 01 2021
ST001	STEFFAN RIDDLE	October 02 2021
ST006	LEANDRO HODGES	November 12 2021

5. Add 'CustomerPhoneNumber' as a new column in MsCustomer table with the data type of VARCHAR (13) with NULL value.

(ALTER TABLE, ADD COLUMN, NULL)

CustomerID	CustomerName	CustomerDOB	CustomerEmail	CustomerGender	CustomerAddress	CustomerPhoneNumber
CU001	Dougie Mayo	2002-10-01	mayo.doug@gmail.com	Male	26 Hodgson Street	NULL
CU002	Eliza McDonnell	2003-08-17	elizaza@gmail.com	Female	15 Sinclair Street	NULL
CU003	Magnus Hough	2004-08-11	magnus.hough@gmail.com	Male	70 Dabinett Road	NULL
CU004	Eadie Prosser	2004-07-14	eadiedi@gmail.com	Female	81 Eungella Road	NULL
CU005	Alicja Dunne	2001-03-12	alicja@gmail.com	Female	37 Bayley Street	NULL
CU006	Donnell Obrien	1999-02-01	donellobri@gmail.com	Male	29 Seninis Road	NULL
CU007	Tilly-Mae Burrows	2001-01-06	tilly.mae@gmail.com	Female	14 Florabunda Lane	NULL
CU008	Miller Zimmerman	2001-09-01	miller.zimmer@gmail.com	Male	61 Creek Street	NULL
CU009	Farhan Rennie	2010-10-02	farhan.han@gmail.com	Male	85 Davidson Street	NULL
CU010	Ayush Haley	2001-05-09	ayush.haley@gmail.com	Female	34 Peterho Boulevard	NULL

6. Update data in MsStaff by adding 1000000 to StaffSalary for every staff that handled transactions on Friday and the name of the yogurt(s) bought starts with 'L' or 'T'.

(REGEXP, DAYNAME)

**Before**

StaffID	StaffName	StaffDOB	StaffEmail	StaffSalary	StaffGender	StaffAddress
ST001	Steffan Riddle	1999-12-21	riddle.steffan@gmail.com	3000000	Male	13 Carlisle Street
ST002	Buddy Booker	1997-11-30	booker.buddy@gmail.com	3500000	Male	5 Normans Road
ST003	Milosz Koch	2000-01-28	koch123@gmail.com	2300000	Female	10 Old Gayndah Road
ST004	Kieren Almond	1998-04-23	almondnut@gmail.com	4500000	Female	78 Campbells River Road
ST005	Josephine Morgan	1998-07-18	morgan.josie@yahoo.com	3000000	Female	50 Little Myers Street
ST006	Leandro Hodges	1999-09-19	hodges99@gmail.com	1000000	Male	5 Weemala Avenue
ST007	Esther Collins	2001-10-10	collins@yahoo.com	2100000	Female	59 Bayview Road
ST008	Rebekka Kane	2001-10-04	kane.rebecca@gmail.com	3200000	Female	4 Marlin Avenue
ST009	Miruna Lim	2001-07-03	mirunalim@yahoo.com	2400000	Female	30 Farrar Parade
ST010	Shaurya Spooner	1995-03-11	spooner.sha@yahoo.com	1350000	Female	73 South Molle Boulevard

### After

StaffID	StaffName	StaffDOB	StaffEmail	StaffSalary	StaffGender	StaffAddress
ST001	Steffan Riddle	1999-12-21	riddle.steffan@gmail.com	3000000	Male	13 Carlisle Street
ST002	Buddy Booker	1997-11-30	booker.buddy@gmail.com	4500000	Male	5 Normans Road
ST003	Milosz Koch	2000-01-28	koch123@gmail.com	3300000	Female	10 Old Gayndah Road
ST004	Kieren Almond	1998-04-23	almondnut@gmail.com	4500000	Female	78 Campbells River Road
ST005	Josephine Morgan	1998-07-18	morgan.josie@yahoo.com	3000000	Female	50 Little Myers Street
ST006	Leandro Hodges	1999-09-19	hodges99@gmail.com	2000000	Male	5 Weemala Avenue
ST007	Esther Collins	2001-10-10	collins@yahoo.com	2100000	Female	59 Bayview Road
ST008	Rebekka Kane	2001-10-04	kane.rebecca@gmail.com	3200000	Female	4 Marlin Avenue
ST009	Miruna Lim	2001-07-03	mirunalim@yahoo.com	2400000	Female	30 Farrar Parade

7. Display **Customer Number** (obtained from the last 2 characters of the **CustomerID**), **YogurtName**, and **TransactionDate** for every transaction with **quantity** bought **more than one** and for every **customer** with the **address** that ends with '**Lane**' or '**Street**'.  
(SUBSTRING, REGEXP)



Customer Number	YogurtName	TransactionDate
07	Phorcys	2021-11-11
02	Phorcys	2022-01-02
02	Phorcys	2022-10-23
05	Lygdamis	2021-10-03
02	Lygdamis	2022-01-02
02	Lygdamis	2022-03-04
02	Lygdamis	2022-10-23
08	Tydeus	2021-11-12
02	Antenor Linus Sosilus	2022-10-23
02	Artemidora	2022-10-23

8. Display **StaffName** and **Day Name** (obtained from the **name** of the day of the **transaction date**) sorted by the **transaction date** in ascending format.

(DAYNAME, ORDER BY)

StaffName	Day Name
Buddy Booker	Friday
Steffan Riddle	Saturday
Milosz Koch	Sunday
Kieren Almond	Monday
Josephine Morgan	Thursday
Leandro Hodges	Friday
Esther Collins	Monday
Rebekka Kane	Tuesday
Miruna Lim	Sunday
Shaurya Spooner	Thursday
Milosz Koch	Friday
Milosz Koch	Sunday
Milosz Koch	Wednesday
Josephine Morgan	Sunday
Josephine Morgan	Tuesday

9. Create a **view** named **'YogurtTransaction'** that will display **New Yogurt ID** (obtained by replacing **'YG'** with **'Yogurt'**), **YogurtName**, and **YogurtPrice** for every yogurt that **has been bought before**. Make sure there are **no duplicates** of the data displayed.  
(**CREATE VIEW, DISTINCT, REPLACE**)

New Yogurt ID	YogurtName	YogurtPrice
Yogurt001	Phorcys	34000
Yogurt002	Lygdamis	50000
Yogurt003	Tydeus	45000
Yogurt004	Patrobus	21000
Yogurt005	Sosicles	27000
Yogurt008	Antenor Linus Sosilus	125000
Yogurt010	Artemidora	100000

10. Create a **view** named '**CustomerAndStaffTransaction**' that will display **CustomerID Number** (obtained from the **last 3 characters of CustomerID**), **Reversed StaffID** (obtained by **reversing StaffID**), and **Day of Year** (obtained from the **number of the day in a year**).  
(**CREATE VIEW, REVERSE, DAYOFYEAR, RIGHT**)

CustomerID Number	Reversed StaffID	Day of Year
001	300TS	121
001	300TS	152
002	900TS	2
002	010TS	34
002	300TS	63
002	500TS	296
003	200TS	274
004	100TS	275
005	300TS	276
006	400TS	305
007	500TS	315
008	600TS	316
009	700TS	354
010	800TS	355
010	500TS	326