


Practicum Final Exam – Odd Semester Year 2022/2023			
Subject COMP6799001 - Database Technology			
Class : B601 / BO01		Start Date : 05 January 2023	
Lecture I : D4458 - Diana, S.Kom., M.T.I. D6659 - Eko Setyo Purwanto, S.Pd., M.Kom.		Start Time : 11:20	
		End Date : 05 January 2023	
		End Time : 13:00	

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
-

FILE YANG DIKUMPULKAN:

The following files must be submitted:

- SQL
-

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.

Soal
Case

Bluejack Bakery

Bluejack Bakery is a bakery which just opened up in Jakarta. **Bluejack Bakery** provides many kinds of tasty pastry. **Bluejack Bakery** also provides sales transaction for every customer that wants to buy a pastry handled by a staff. The customer can buy more than one pastry in a single transaction.

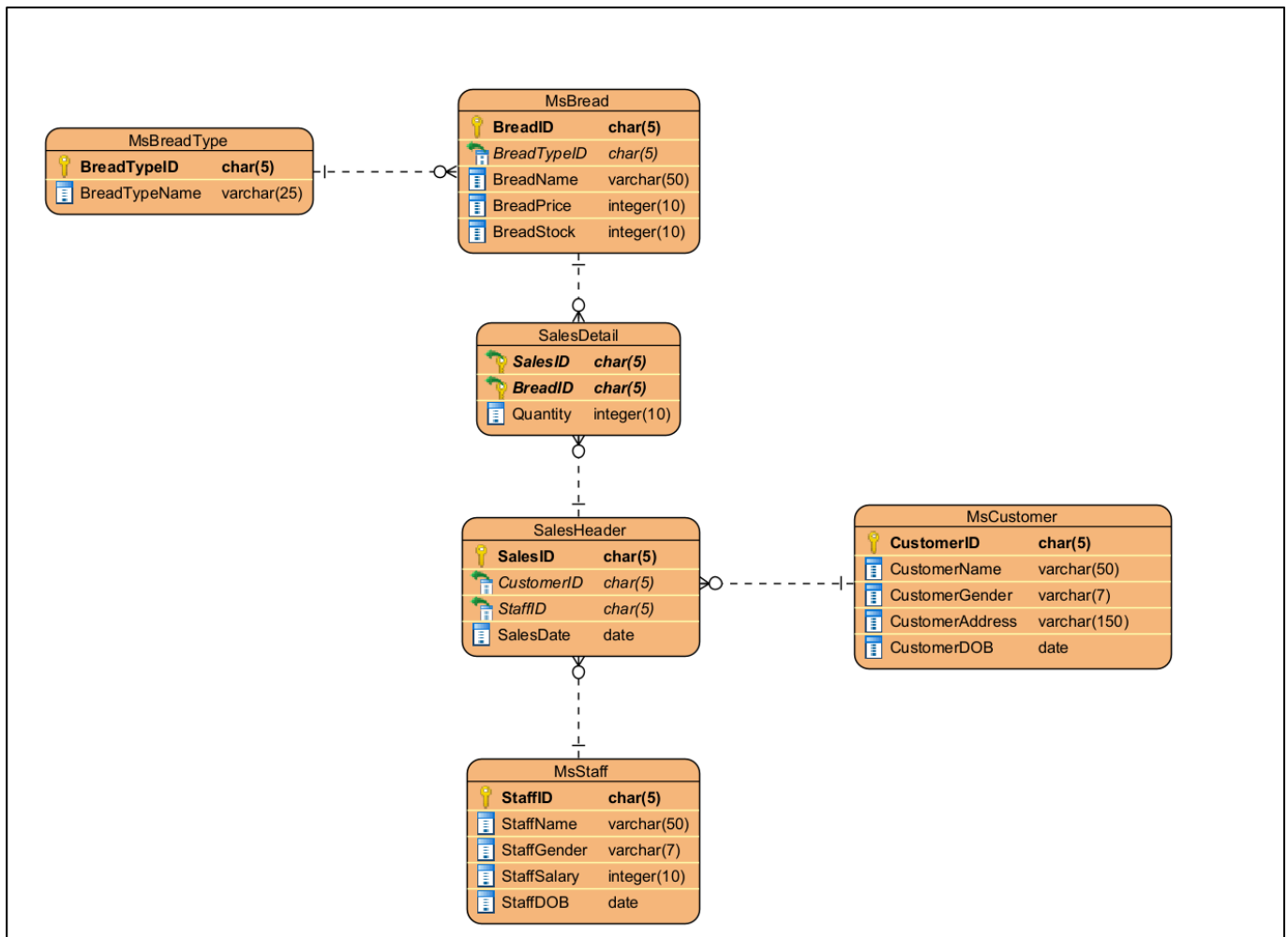


Figure 1. ERD

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

(USE)

2. **WD Display BreadID, BreadName, BreadTypeName, and BreadPrice** for every bread which **BreadName started with “R”**.

(LIKE)

BreadID	BreadName	BreadTypeName	BreadPrice
BR011	Roti Canai	Ciabatta	27500
BR012	Roti Buaya	Multigrain	47500

3. **WD Display Name** (obtained from **CustomerName in Uppercase Format**), **Gender** (obtained from **CustomerGender**), **Date Of Birth** (obtained from **CustomerDOB**) for every **Customer** whose **CustomerName Contains letter “a”**. Then, combine it with **Name** (obtained from **StaffName in Uppercase Format**), **Gender** (obtained from **StaffDate**), **Date Of Birth** (obtained from **StaffDOB**) for every Staff whose **StaffName Contains letter “a”**.

(UPPER, UNION, LIKE)

Name	Gender	Date Of Birth
EMILY ALI	Male	1971-03-18
PEGGY TRAN	Male	2017-12-12
BRYAN PUGH	Male	2017-03-26
CAROLYN ANDERSON	Male	2008-05-09
JOSHUA MARTINEZ	Female	2007-06-10
JAMES PHILLIPS	Female	2012-01-09
FRANK MARTINEZ	Female	1979-06-09
MARIA NICHOLS	Male	1980-11-25
NATALIE LAWRENCE	Female	1998-09-18
DAVID OLIVER	Male	1993-02-25
JAMIE HESS	Female	2015-05-27
DAVID SMITH	Female	1980-09-30
GARRETT KELLY	Female	1983-01-16
ADRIAN CRUZ	Male	1990-07-11
JAMES REED	Male	2000-02-17
KAYLA HUERTA	Male	1985-06-02

4. Display **Name** (obtained from **CustomerName** in **uppercase format**), and **Year of Birth**(obtained from **Year of CustomerDOB**) for every transaction which **happen at least 4 years ago before ‘02/11/2022’** and **quantity less than 15**. Then, combine it with **Name** (obtained from **StaffName** in **Uppercase Format**), and **Year of Birth**(obtained from **Year of StaffDOB**) for every transaction which **happen at least 4 years (1 year = 365 days) before ‘02/11/2022’** and **quantity more than 25**.

(DATEDIFF, YEAR, UPPER, UNION)

Name	Year of Birth
JOSHUA MARTINEZ	2007
FRANK MARTINEZ	1979

5. Add **‘CustomerPhone’** as new column on **MsCustomer** table with **VARCHAR(25)** data type.
- (ALTER TABLE, ADD)**

CustomerID	CustomerName	CustomerGender	CustomerAddress	CustomerDOB	CustomerPhone
CU001	Emily Ali	Male	387 Pham Path Suite 890 Cannonmouth, WI 44399	1971-03-18	NULL
CU002	Peggy Tran	Male	4966 Micheal Route Suite 942 Dawntown, NC 41036	2017-12-12	NULL
CU003	Bryan Pugh	Male	36362 Alexa Manors Apt. 159 Lake Tinaberg, CO 4099...	2017-03-26	NULL
CU004	Carolyn Anderson	Male	656 Jefferson Islands South Mackenzieville, AK 018...	2008-05-09	NULL
CU005	Kristin Lee	Male	32896 Lee Tunnel Spencerside, MN 29913	2021-08-27	NULL
CU006	Joshua Martinez	Female	5887 Gilbert Isle East Daniel, OR 54855	2007-06-10	NULL
CU007	James Phillips	Female	6819 Stewart Expressway Melindaburgh, NM 22648	2012-01-09	NULL
CU008	Frank Martinez	Female	9808 Edwards Pass Suite 292 South Kenneth, RI 2052...	1979-06-09	NULL
CU009	Maria Nichols	Male	525 Figueroa Dam Apt. 323 Sydneyemouth, HI 34628	1980-11-25	NULL
CU010	Natalie Lawrence	Female	88399 Alison Flat Josephside, MO 01918	1998-09-18	NULL

6. WD Update data from **MsBread** table for every **bread** that has **transaction handled by Staff** whose **first name is “David”** and **transaction occur after 2019**. Breadprice + 10k
(UPDATE, YEAR, LIKE)

Before

BreadID	BreadTypeID	BreadName	BreadPrice	BreadStock
BR001	BT002	Bagel	21000	50
BR002	BT001	Banana bread	17500	120
BR003	BT004	Belgian waffle	35000	25
BR004	BT003	Bread Stick	15000	200
BR005	BT002	Dorayaki	27500	75
BR006	BT007	Curry Bread	30500	35
BR007	BT006	White Bread	12500	200
BR008	BT009	Melon Pan	50000	50
BR009	BT010	Yakisoba Pan	22500	75
BR010	BT008	Pretzel	32700	35
BR011	BT005	Roti Canai	27500	75
BR012	BT007	Roti Buaya	47500	10
BR013	BT006	Texas Toast	36500	25
BR014	BT001	Soda Bread	30500	50
BR015	BT007	Choco chips Cookies	33500	60

After

BreadID	BreadTypeID	BreadName	BreadPrice	BreadStock
BR001	BT002	Bagel	21000	50
BR002	BT001	Banana bread	17500	120
BR003	BT004	Belgian waffle	45000	25
BR004	BT003	Bread Stick	15000	200
BR005	BT002	Dorayaki	37500	75
BR006	BT007	Curry Bread	30500	35
BR007	BT006	White Bread	12500	200
BR008	BT009	Melon Pan	50000	50
BR009	BT010	Yakisoba Pan	32500	75
BR010	BT008	Pretzel	42700	35
BR011	BT005	Roti Canai	27500	75
BR012	BT007	Roti Buaya	47500	10
BR013	BT006	Texas Toast	36500	25
BR014	BT001	Soda Bread	30500	50
BR015	BT007	Choco chips Cookies	33500	60

7. **WD** Display **BreadID**, **BreadName**, **BreadPrice**, **Quantity**, and **Sales Date** (obtained from **TransactionDate** with ‘Month dd yyyy’ format) for every bread which **bought by Customer with CustomerID** is “CU004” and **have a transaction before 2020**.

(YEAR, DATE_FORMAT)

BreadID	BreadName	BreadPrice	Quantity	Sales Date
BR005	Dorayaki	37500	1	April 12 2019
BR003	Belgian waffle	45000	24	April 04 2018

8. **WD** Display **BreadID**, **BreadName**, **BreadTypeName** and **BreadPrice** for every bread which **BreadName** has more than 10 characters. After that, **sort** the result by **BreadPrice** from **largest to smallest**.

(LENGTH, ORDER BY)

BreadID	BreadName	BreadTypeName	BreadPrice	▼ 1
BR003	Belgian waffle	Focaccia	45000	
BR013	Texas Toast	Rye Bread	36500	
BR015	Choco chips Cookies	Multigrain	33500	
BR009	Yakisoba Pan	Challah	32500	
BR006	Curry Bread	Multigrain	30500	
BR002	Banana bread	Baguette	17500	
BR004	Bread Stick	Sourdough	15000	
BR007	White Bread	Rye Bread	12500	

9. **WD** Create a **view** named ‘**ViewStaffAt2020**’ to display **StaffID**, **StaffName** (obtained from **StaffName** adding with ‘**Mr./Mrs.**’ in front of **StaffName**) for every transaction that **happens in 2020**.

(CREATE VIEW, CONCAT, YEAR)

StaffID	StaffName
ST003	Mr./Mrs.David Smith
ST005	Mr./Mrs.Garrett Kelly

10. **WD** Create a **view** named '**BreadSalesMarch**' to display **BreadID**, **BreadName**, **BreadPrice**, **BreadType**(obtained from **BreadTypeName** ends with ' **Type**') for every transaction which happens in **March** and have **BreadPrice** between **20000** and **50000**.

(**CREATE VIEW**, **MONTH**, **CONCAT**, **BETWEEN**)

BreadID	BreadName	BreadPrice	BreadType
BR005	Dorayaki	37500	Brioche Type
BR003	Belgian waffle	45000	Focaccia Type
BR009	Yakisoba Pan	32500	Challah Type