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| Practicum Case |  |
| COMP6799 COMP6799001 COMP6799016 COMP6799049 Database Technology | |
| Computer Science | E231-COMP6799-HG01-02 |
| <i>Valid on Even Semester Year 2022/2023</i> | Revision 00 |

Learning Outcomes

- LO2 – explain the concepts of relational algebra, DDL, DML, transaction management on database and concurrency control

Topic

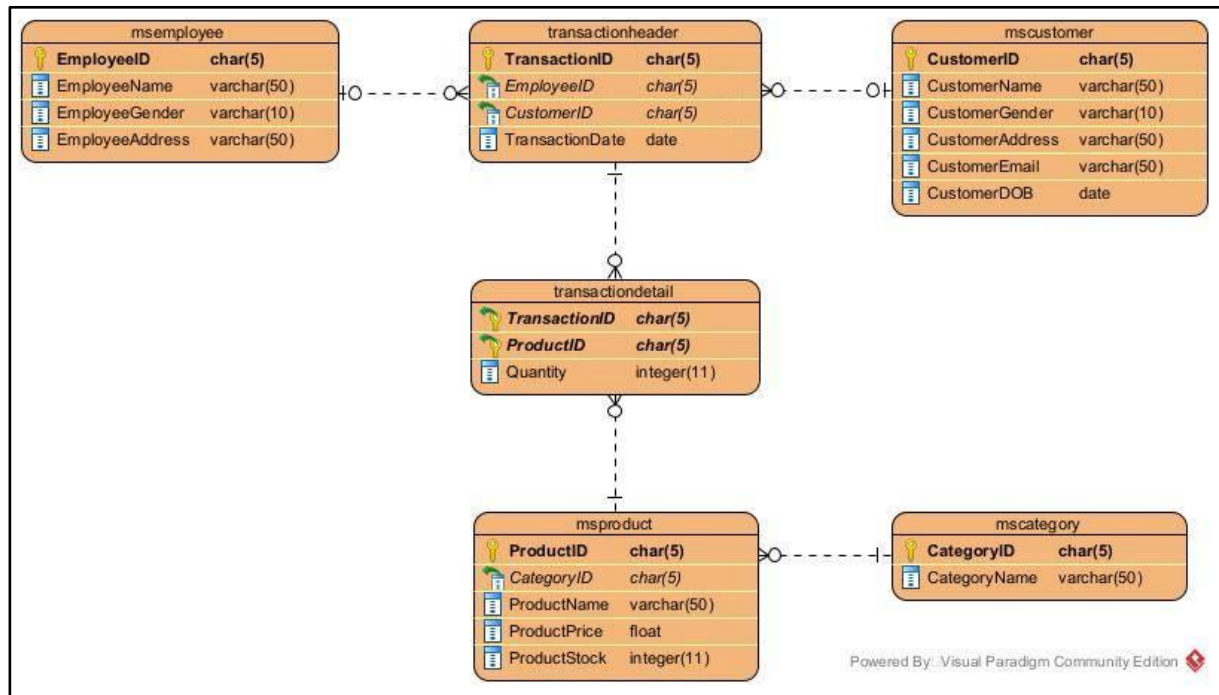
- Session 02 – Simple Query I

Sub Topics

- Conditional Query
- String Functions
- Date Functions

Tabel Relasional

Relational Table



Soal

Case

1. Display **all data** from **MsCategory** for every **category** which **name contains letter 'a'**.

(LIKE)

| CategoryID | CategoryName |
|------------|--------------|
| CT001 | Dairy |
| CT002 | Vegetable |
| CT004 | Meat |

2. Display **CustomerName** (obtained by **adding 'Mr.'** before the customer name), **CustomerGender**, and **CustomerAddress** for every **'Male'** customer.

(CONCAT, LIKE)

| CustomerName | CustomerGender | CustomerAddress |
|--------------------|----------------|---------------------------|
| Mr.Dirk Titterell | Male | 74 Melvin Point |
| Mr.Dukey Diano | Male | 92 Sugar Alley |
| Mr.Alex Meekins | Male | 577 Dovetail Park |
| Mr.Ingamar Carlin | Male | 389 Surrey Pass |
| Mr.Pooh McCutcheon | Male | 7 Melby Trail |
| Mr.Amy Grenkov | Male | 2263 Weeping Birch Center |

3. Display **Transaction Number** (obtained by **replacing 'TR'** with **'Transaction '** in **TransactionID**), **CustomerID**, and **TransactionID** for every **transaction** that **occur in range of 31 year before January 31st, 2023**.

(REPLACE, DATE_SUB)

| Transaction Number | CustomerID | TransactionDate |
|--------------------|------------|-----------------|
| Transaction 007 | CU015 | 2022-01-01 |
| Transaction 019 | CU005 | 2022-01-18 |
| Transaction 036 | CU007 | 2022-01-06 |

4. Display **ProductName** and **Announcement** (obtained by adding 'Price: \$' before the product price which is **discounted by 50%**, then add ' **just for today!**' after the discounted price) for every **product** which **name ends with 'Cheese'**.

(CONCAT, ROUND, LIKE)

| ProductName | Price |
|------------------|-------------------------------|
| Mozarella Cheese | Price: \$2.99 just for today! |
| Cheddar Cheese | Price: \$2.49 just for today! |
| Gouda Cheese | Price: \$2.99 just for today! |
| Feta Cheese | Price: \$2.00 just for today! |
| Blue Cheese | Price: \$3.49 just for today! |
| Goat Cheese | Price: \$2.99 just for today! |
| Swiss Cheese | Price: \$2.49 just for today! |

5. Display **CustomerName** and **AddressType** (obtained from the **last word** in **CustomerAddress**) for every **Female customer**.

(RIGHT, POSITION, REVERSE, LIKE)

| CustomerName | Address Type |
|-------------------|--------------|
| Cherice Jermey | Street |
| Silvain Jozsa | Hill |
| Javier Drewson | Point |
| Wilbur Francino | Avenue |
| Sadie Snow | Hill |
| Sofie Carmen | Plaza |
| Gabriela Scarf | Trail |
| Westley Boram | Terrace |
| Hadleigh Playfoot | Junction |

6. Display **TransactionID**, **Day** (obtained from the **day name** of the **transaction**), **CustomerName** (obtained from **CustomersName** in **uppercase** format), and **Email** (obtained by **changing** the **characters after '@'** with **'gmail.com'**) for every **transaction** that **happen on November** and is **done by a customer** which **name is shorter than 12 characters long**.

(DAYNAME, UPPER, INSERT, POSITION, REVERSE, LENGTH, MONTH)

| TransactionID | Day | CustomerName | Email |
|---------------|---------|--------------|-------------------|
| TR033 | Friday | DUKEY DIANO | ddiano1@gmail.com |
| TR025 | Tuesday | SADIE SNOW | ssnow9@gmail.com |
| TR062 | Friday | SADIE SNOW | ssnow9@gmail.com |

7. Display **TransactionID**, **Product Bought** (obtained by **displaying all** of the **product name** **bought** in the transaction **separated by comma**), **Date** (obtained from **transaction date** in **dd-MM-yyyy format**) for every **transaction** that **happens in August** and have an **odd day**.

(GROUP_CONCAT, DATE_FORMAT, MONTH, DAY)

| TransactionID | Product Bought | Date |
|---------------|--|----------------|
| TR009 | Wild-Caught Salmon, Seville Oranges, Baby Spinach, At... | 09 August 2022 |
| TR022 | Red Delicious Apples, Goat Cheese, Salted Butter, Gol... | 15 August 2022 |
| TR029 | Red Delicious Apples, Goat Cheese, Salted Butter, Gol... | 09 August 2022 |
| TR038 | Sockeye Salmon, Free-Range Chicken Breast, Wild-Caug... | 09 August 2022 |
| TR051 | Wild-Caught Salmon, Seville Oranges, Baby Spinach, At... | 15 August 2022 |
| TR058 | Wild-Caught Salmon, Seville Oranges, Baby Spinach, At... | 09 August 2022 |
| TR066 | Sockeye Salmon, Free-Range Chicken Breast, Wild-Caug... | 09 August 2022 |