|  |  |
| --- | --- |
| **Practicum Case** |  |
| ISYS6169  Database Systems |
| **Information Systems** | **O221-ISYS6169-DD01-04** |
| ***Valid on*** *Odd Semester Year 2021/2022* | **Revision 00** |

## Learning Outcomes

* Database Language and SQL Programming Language

## Topic

* SQL – Data Manipulation (2)

## Subtopics

* Operator <, >, =, %, /
* Date Functions
* String Functions

**Tabel Relasional**

*Relational Table*

Diagram

Description automatically generated

## Soal

*Case*

1. Display all data from **MsFishType**.

(**select**)

Table

Description automatically generated

1. Display **FishName** and **Announcement** (obtained by adding ‘**Price: $**’ before the fish price which is discounted by **50%**, then adding ‘ **just for today!**’ after the discounted fish price) for every fish which names contain ‘**Tuna**’.

(**concat**, **like**)

Graphical user interface, table

Description automatically generated

1. Display **TransactionId**, **Day** (obtained from the **day** of the transaction), and Name (obtained from **Customers Name** in **uppercase** format) for every transaction that happen on **23th June 2020** and the **last 10 days** before that.

(**day**, **upper**, **datediff**)

Table

Description automatically generated with low confidence

1. Display **CustomerName** and **Address** (obtained from **Customers Address** in **lowercase** format) for every customer whose **address** starts with **2 digits**.

(**like**)

Table

Description automatically generated

1. Display **CustomerName**, **TransactionDate**, and **DayOfWeek** (obtained from the **first 3 characters** from the name of the **day** when transaction happened) for every transaction in **June** **2020**.

(**left**, **datename**, **year**, **month**)

Table

Description automatically generated

1. Display **TransactionId**, **LastName** (obtained from the character **after space** until the **last character** in FishermanName), and **TransactionDate** for every transaction that occurs in the **3rd** **quarter** of the year.

(**substring**, **charindex**, **len**, **datepart**)

Table

Description automatically generated

1. Display **CustomerName** and **Email** (obtained by changing the characters after ‘@’ in Customers Email to ‘**fmania.com**’) for every customer with CustomerID ‘**CU001**’, ‘**CU005**’, and ‘**CU008**’.

(**stuff**, **charindex**, **len**, **in**)

Table

Description automatically generated

1. Display **CustomerName**, **CouponCode** (obtained by **reversing** the TransactionId), and **CouponExpiry** (obtained by adding **3 months** from the TransactionDate in ‘**Mon dd, yyyy**’ format) for every transaction that occurred in **2021**.

(**reverse**, **convert**, **dateadd**, **month**, **year**)

Table

Description automatically generated

1. Display **FishName** and **Type** (obtained by replacing ‘**FT**’ to ‘**TP**’ on FishTypeId) for every fish which names does not contain ‘**Catfish**’, ‘**Tuna**’, ‘**Bass**’, ‘**Grouper**’, and ‘**Marlin**’.

(**replace**, **not like**)

Table

Description automatically generated

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

(**right**, **charindex**, **reverse**, **like**)

Graphical user interface, table

Description automatically generated