|  |  |
| --- | --- |
| **Practicum Case** |  |
| ISYS6123  Introduction to Database Systems |
| **Information Systems** | **O221-ISYS6123-DD01-03** |
| ***Valid on*** *Odd Semester Year 2021/2022* | **Revision 00** |

## Learning Outcomes

* Query of SQL that suitable with the problem

## Topic

* SQL – Data Manipulation (1)

## Subtopics

* Insert Data
* Delete Data
* Update Data
* Begin Tran
* Simple Query

**Tabel Relasional**

*Relational Table*

Diagram

Description automatically generated

## Soal

*Case*

1. Insert these data into **TransactionDetail** table:

(**insert**)

|  |  |  |  |
| --- | --- | --- | --- |
| **TransactionID** | **FishID** | **Quantity** |  |
| TR014 | FI014 | 27 |  |
| TR014 | FI010 | 2 |  |
| TR015 | FI005 | 26 |  |
| TR015 | FI002 | 21 |  |

1. Insert these data into **MsFish** table:

(**insert**, **round**, **rand**)

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **TransactionID** | **FishID** | **Quantity** | **FishPrice** |  |
| FI017 | FT003 | Red Mackerel | Random decimal number between 5 and 40, rounded to 1 decimal place. |  |

1. Delete data on **MsFish** table for every fish which type ID is ‘**FT003**’ or ‘**FT005**’.

(**delete**, **in**)

**Before** delete:

A picture containing table

Description automatically generated

**After** delete:

Table, Excel

Description automatically generated

1. Delete data on **MsCustomer** table for every **female** customer that does **not have** an address.

(**delete**, **in**)

**Before** delete:

Table

Description automatically generated with medium confidence

**After** delete:

Graphical user interface, application, table

Description automatically generated

1. Update **MsFish** table by subtracting **FishPrice** by 3 for every fish which price is **between 10** and **12**.

(**delete**, **in**)

**Before** update:

Table

Description automatically generated

**After** update:

A picture containing text, indoor, cabinet

Description automatically generated

1. Update **MsFish** table by adding **FishPrice** by 2.5 for every fish which fish type ID is ‘**FT001**’or ‘**FT002**’, and the price is **above** **35**.

(**delete**, **in**)

**Before** update:

Table, Excel

Description automatically generated

**After** update:

A picture containing text, crossword puzzle

Description automatically generated

1. Display all customer’s data from **MsCustomer** table for every customer that **has an address**. Then order the data based on the **Customer’s DOB** in ascending format.

(**is not null**, **order by**)

Graphical user interface, application

Description automatically generated

1. Display **FishermanName** and **Address** (obtained by adding ‘**Address:** ’ in front of the fisherman’s address) for every **male** fisherman.

Graphical user interface, table

Description automatically generated

1. Display **FishName** and **Price** (obtained by adding ‘**$**’ in front of FishPrice) for every fish which price is **below or equal to 10**.

(**cast**, **order by**)

Graphical user interface

Description automatically generated with low confidence

1. Display **FishName** and **DiscountPrice** (obtained by rounding down FishPrice and adding '**$**' in front of the FishPrice) for every fish named ‘**Red Grouper**’.

(**convert**, **floor**)

