Soal Praktikum Practicum Case	
ISYS6028	BINUS
Database Systems	Institute of Creative Technology
Teknik Informatika Computer Science	
Periode Berlaku Semester Ganjil 2017/2018 Valid on Odd Semester Year 2017/2018	Revisi 00 Revision 00

Learning Outcomes

• Apply database language and SQL Programming language

Topic

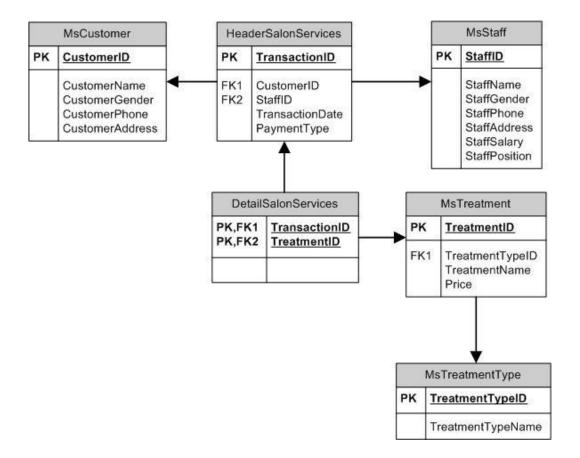
• Session 02 - SQL – Data Definition (1)

Sub Topics

- Introducing table and referential integrity
- Primary and Foreign Key
- Constraint Value
- Drop Table
- Alter Table

Tabel Relasional

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Sintaks

Syntax

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```
Create Table
CREATE TABLE table_name
      field1_name datatype ( length ) [NOT NULL]
      , field2_name datatype ( length ) [NOT NULL]
      , field3_name datatype ( length ) [NOT NULL]
      [, PRIMARY KEY (field_name [, ...])]
      [, FOREIGN KEY (field_name) REFERENCES table_name (field_name)]
      [, CONSTRAINT constraint_name CHECK (criteria)]
Drop Table
DROP TABLE table_name
Alter Table
ALTER TABLE table_name
{ ADD column_name datatype |
 DROP COLUMN column_name |
 ALTER COLUMN column_name datatype |
 ADD CONSTRAINT constraint_name CHECK(criteria) |
 ADD PRIMARY KEY (primary_key_name) |
 DROP CONSTRAINT constraint_name }
```

Soal

Case

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1. Create tables with the following descriptions : (create table, like)

Table's Name : **MsCustomer** Primary Key : **CustomerId**

Field Name	Data Type	Length	Description
CustomerId	CHAR	5	Cannot be empty, must be started
			with 'CU' and followed by 3
			characters of number.
			Example: CU001
CustomerName	VARCHAR	50	-
CustomerGender	VARCHAR	10	Must be 'Male' or 'Female'
CustomerPhone	VARCHAR	13	-
CustomerAddress	VARCHAR	100	-

Table's Name : **MsStaff** Primary Key : **StaffId**

Field Name	Data Type	Length	Description
StaffId	CHAR	5	Cannot be empty, must be started
			with 'SF' and followed by 3
			characters of number.
			Example: SF001
StaffName	VARCHAR	50	-
StaffGender	VARCHAR	10	Must be 'Male' or 'Female'
StaffPhone	VARCHAR	13	-
StaffAddress	VARCHAR	100	-
StaffSalary	NUMERIC	11,2	-
StaffPosition	VARCHAR	20	-

Table's Name : **MsTreatmentType**Primary Key : **TreatmentTypeId**

Field Name	Data Type	Length	Description
TreatmentTypeId	CHAR	5	Cannot be empty, must be started
			with 'TT' and followed by 3
			characters of number.
			Example: TT001
TreatmentTypeName	VARCHAR	50	-

Table's Name : **MsTreatment** Primary Key : **TreatmentId**

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Field Name	Data Type	Length	Description
TreatmentId	CHAR	5	Cannot be empty, must be started
			with 'TM' and followed by 3
			characters of number.
			Example: TM001
TreatmentTypeId	CHAR	5	Cannot be empty, references from
			MsTreatmentType and if the
			referenced data is changed then the
			TreatmentTypeId data in
			MsTreatment will also be changed
TreamentName	VARCHAR	50	-
Price	NUMERIC	11,2	-

Table's Name : **HeaderSalonServices**

Primary Key : **TransactionId**

Field Name	Data Type	Length	Description
TransactionId	CHAR	5	Cannot be empty, must be started
			with 'TR' and followed by 3
			characters of number.
			Example: TR001
CustomerId	CHAR	5	Cannot be empty, references from
			MsCustomer and if the referenced
			data is changed then the CustomerId
			data in HeaderSalonServices will
			also be changed
StaffId	CHAR	5	Cannot be empty, references from
			MsStaff and if the referenced data is
			changed then the StaffId data in
			HeaderSalonServices will also be
			changed
TransactionDate	DATE	-	-
PaymentType	VARCHAR	20	-

Table's Name : **DetailSalonServices**

Primary Key : TransactionId, TreatmentId

Field Name	Data Type	Length	Description
TransactionId	CHAR	5	Cannot be empty, references from
			HeaderSalonServices and if the
			referenced data is changed then the
			TransactionId data in
			DetailSalonServices will also be
			changed
TreatmentId	CHAR	5	Cannot be empty, references from
			MsTreatment and if the referenced
			data is changed then the TreatmentId
			data in DetailSalonServices will

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	also be changed

- 2. Delete the **DetailSalonServices** table. (**drop table**)
- 3. Create tables with the following descriptions:

Table's Name : **DetailSalonServices**

Field Name	Data Type	Length	Description
TransactionId	CHAR	5	Cannot be empty, references from
			HeaderSalonServices and if the
			referenced data is changed then the
			TransactionId data in
			DetailSalonServices will also be
			changed
TreatmentId	CHAR	5	Cannot be empty, references from
			MsTreatment and if the referenced
			data is changed then the TreatmentId
			data in DetailSalonServices will
			also be changed

Then, with **alter** syntax, change the TransactionId and TreatmentId field to become primary key on that table.

(create table, alter table, primary key)

- 4. Add a constraint for **MsStaff** table to validate that staff's name must be between 5 and 20 characters and the previous data is not necessary to be checked. Then, delete the constraint. (alter table, with nocheck, add constraint, drop)
- 5. Add 'Description' as a new column on **MsTreatment** table with varchar(100) data type. Then, delete the column.

(alter table, add, drop column)

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