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| **Soal Praktikum**  *Practicum Case* |  |
| ISYS6028  Database Systems |
| **Teknik Informatika**  *Computer Science* | O221-ISYS6028-DW01-07 |
| **Periode Berlaku Mulai** 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

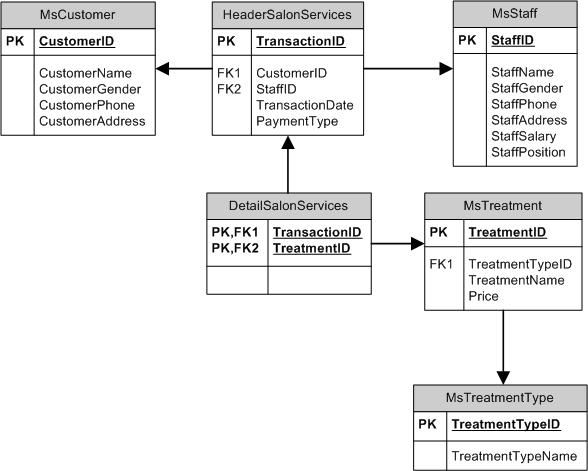
* Session 07 **-** SQL – Data Manipulation (5)

## Sub Topics

* Subquery
* Alias subquery
* IN & EXISTS
* ANY, SOME, ALL

**Tabel Relasional**

*Relational Table*



**Sintaks**

*Syntax*

###### **Alias**

**for field name**

SELECT { field\_name AS field\_alias | field\_alias = field\_name }

FROM table\_name

**for table name**

SELECT { \* | field\_name [, …] }

FROM table\_name [AS] table\_alias

**for subquery name**

( SELECT { \* | field\_name [, …] }

FROM table\_name [, …] )

[AS] table\_alias

###### **In**

SELECT { \* | field\_name [, …] }

FROM table\_name [, …]

WHERE field\_name [NOT] IN ( { value1, value2 [, ...] | select\_query } )

**Exists**

SELECT { \* | field\_name [, …] }

FROM table\_name [, …]

WHERE [NOT] EXISTS (select\_query)

###### **All, Any, Some**

SELECT { \* | field\_name [, …] }

FROM table\_name [, …]

WHERE field\_name { relational\_operator} {ALL | ANY | SOME} ( select\_query )

###### **Select Into**

SELECT { \* | field\_name [, …] }

INTO new\_table [IN external\_database]

FROM source

## Soal

*Case*

1. Display TreatmentId, and TreatmentName for every treatment which id is ‘TM001’ or ‘TM002’.

(**in**)

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1. Display TreatmentName, and Price for every treatment which type is not ‘Hair Treatment’ and ‘Message / Spa’.

(**in**, **not in**)



1. Display CustomerName, CustomerPhone, and CustomerAddress for every customer whose name is more than 8 charactes and did transaction on Friday.

(**len**, **in**, **datename**, **weekday**)

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1. Display TreatmentTypeName, TreatmentName, and Price for every treatment that taken by customer whose name contains ‘Putra’ and happened on day 22th.

(**in**, **like**, **day**)

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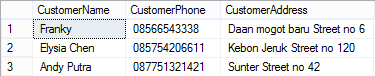
1. Display StaffName, CustomerName, and TransactionDate (obtained from TransactionDate in ‘Mon dd,yyyy’ format) for every treatment which the last character of treatmentid is an even number.

(**convert**, **exists**, **right**)



1. Display CustomerName, CustomerPhone, and CustomerAddress for every customer that was served by staff whose name’s length is an odd number.

(**exists**, **len**)



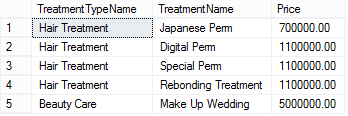
1. Display ID (obtained form last 3 characters of StaffID), and Name (obtained by taking character after the first space until character before second space in StaffName) for every staff whose name contains at least 3 words and hasn’t served male customer .

(**right**, **substring**, **charindex**, **len**, **exists**, **in**,**not like**, **like**)

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1. Display TreatmentTypeName, TreatmentName, and Price for every treatment which price is higher than average of all treatment’s price.

(**alias subquery**, **avg**)



1. Display StaffName, StaffPosition, and StaffSalary for every staff with highest salary or lowest salary.

(**alias subquery**, **max**, **min**)

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1. Display CustomerName,CustomerPhone,CustomerAddress, and Count Treatment (obtained from the total number of treatment) for every transaction which has the highest total number of treatment.

(**alias subquery**, **group by**, **max**, **count**)

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