


Soal Praktikum <i>Practicum Case</i>	
ISYS6028 Database Systems	
Teknik Informatika <i>Computer Science</i>	CS- ISYS6028-Var01
Periode Berlaku Mulai Semester Ganjil 2021/2022 Valid on Odd Semester Year 2021/2022	Revisi 00 Revision 00

Learning Outcomes

- Apply database language and SQL Programming language

Topic

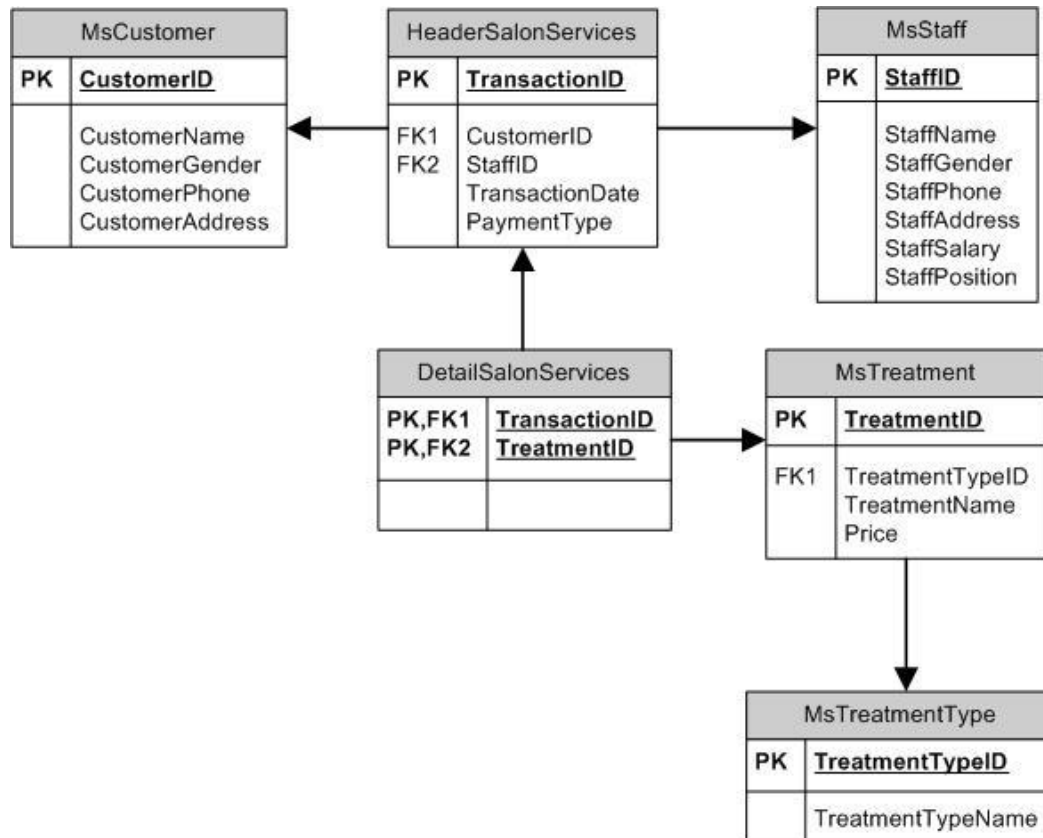
- Session 03 - SQL – Data Manipulation (1)

Sub Topics

- **Insert Data**
- **Delete Data**
- **Update Data**
- **Begin Trans**
- Simple Query

Tabel Relasional

Relational Table



Sintaks*Syntax***Insert Into**

```
INSERT INTO table_name [ ( field1_name , field2_name [, ...] ) ]  
VALUES ( value1 , value2 [, ...] )
```

Update

```
UPDATE table1_name  
SET field1_name = new_value [, ...]  
[ FROM table1_name, table2_name [, ...] ]  
WHERE condition
```

Delete From

```
DELETE FROM table_name [, ...]  
WHERE condition
```

Soal

Case

1. Insert the following data.
(insert)

Table : MsStaff

StaffId	StaffName	StaffGender	StaffPhone	StaffAddress	StaffSalary	StaffPosition
SF006	Jeklin Harefa	Female	085265433322	Kebon Jeruk Street no 140	3000000	Stylist
SF007	Lavinia	Female	085753500011	Kebon Jeruk Street no 153	3000000	Stylist
SF008	Stephen Adrianto	Male	085564223311	Mandala Street no 14	3000000	Stylist
SF009	Rico Wijaya	Male	085710252525	Keluarga Street no 78	3000000	Stylist

Table : HeaderSalonServices

TransactionId	CustomerId	StaffId	TransactionDate	PaymentType
TR010	CU001	SF004	2012/12/23	Credit
TR011	CU002	SF006	2012/12/24	Credit
TR012	CU003	SF007	2012/12/24	Cash
TR013	CU004	SF005	2012/12/25	Debit
TR014	CU005	SF007	2012/12/25	Debit
TR015	CU005	SF005	2012/12/26	Credit
TR016	CU002	SF001	2012/12/26	Cash
TR017	CU003	SF002	2012/12/26	Credit
TR018	CU005	SF001	2012/12/27	Debit

Table : DetailSalonServices

TransactionId	TreatmentId
TR010	TM003
TR010	TM005
TR010	TM010
TR011	TM015
TR011	TM025
TR012	TM009
TR013	TM003
TR013	TM006
TR013	TM015
TR014	TM016
TR015	TM016
TR015	TM006

TR016	TM015
TR016	TM003
TR016	TM005
TR017	TM003
TR018	TM006
TR018	TM005
TR018	TM007

2. Insert the following data.
(**insert, dateadd, day, getdate**)

Table : HeaderSalonServices

TransactionId	CustomerId	StaffId	TransactionDate	PaymentType
TR019	CU005	SF004	Obtained by adding 3 days to current date.	Credit

3. Insert the following data.
(**insert, round, rand**) $\text{Round}(\text{rand}() * (\text{Max} - \text{Min}) + \text{Min}, 0)$

StaffId	StaffName	StaffGender	StaffPhone	StaffAddress	StaffSalary	StaffPosition
SF010	Effendy Lesmana	Male	085218587878	Tangerang City Street no 88	Obtained from random number between 3000000 and 5000000	Stylist

4. Change CustomerPhone by replacing '08' with '628' on **MsCustomer** table. Then display all data on **MsStaff** table.
(**update, replace**)

	CustomerId	CustomerName	CustomerGender	CustomerPhone	CustomerAddress
1	CU001	Franky	Male	628566543338	Daan mogot baru Street no 6
2	CU002	Emalia Dewi	Female	6285264782135	Tanjung Duren Street no 185
3	CU003	Elysia Chen	Female	6285754206611	Kebon Jeruk Street no 120
4	CU004	Brando Kartawijaya	Male	6281170225561	Greenvil Street no 88
5	CU005	Andy Putra	Male	6287751321421	Sunter Street no 42

5. Change the StaffPosition into 'Top Stylist' and add StaffSalary by 7000000 on **MsStaff** table for every staff whose name is 'Effendy Lesmana'. Then display all data on **MsStaff** table.
(**update, like**)

	StaffId	StaffName	StaffGender	StaffPhone	StaffAddress	StaffSalary	StaffPosition
1	SF001	Dian Felita Tanoto	Female	085265442222	Palmerah Street no 56	15000000.00	Top Stylist
2	SF002	Mellisa Pratiwi	Female	085755552011	Kebon Jeruk Street no 151	10000000.00	Top Stylist
3	SF003	Livia Ashianti	Female	085218542222	Kebon Jeruk Street no 19	7000000.00	Stylist
4	SF004	Indra Saswita	Male	085564223311	Sunter Street no 91	7000000.00	Stylist
5	SF005	Ryan Nixon Salim	Male	085710255522	Kebon Jeruk Street no 123	3000000.00	Stylist
6	SF006	Jeklin Harefa	Female	085265433322	Kebon Jeruk Street no 140	3000000.00	Stylist
7	SF007	Lavinia	Female	085755500011	Kebon Jeruk Street no 153	3000000.00	Stylist
8	SF008	Stephen Adrianto	Male	085564223311	Mandala Street no 14	3000000.00	Stylist
9	SF009	Rico Wijaya	Male	085710252525	Keluarga Street no 78	3000000.00	Stylist
10	SF010	Effendy Lesmana	Male	085218587878	Tangerang City Street no 88	10030486.00	Top Stylist

6. Change the CustomerName into the first name of CustomerName (obtained from the first character of CustomerName until character before space) on **MsCustomer** table for every customer who did transaction on 24th day. Then display all data on **MsCustomer** table.
(update, left, charindex, datepart, day)

	CustomerId	CustomerName	CustomerGender	CustomerPhone	CustomerAddress
1	CU001	Franky	Male	08566543338	Daan mogot baru Street no 6
2	CU002	Emalia	Female	085264782135	Tanjung Duren Street no 185
3	CU003	Elysia	Female	085754206611	Kebon Jeruk Street no 120
4	CU004	Brando Kartawijaya	Male	081170225561	Greenvil Street no 88
5	CU005	Andy Putra	Male	087751321421	Sunter Street no 42

7. Change CustomerName by adding 'Ms. ' in front of it on **MsCustomer** table for every customer whose id is 'CU002' or 'CU003'. Then display all data on **MsCustomer** table.
(update, in)

	CustomerId	CustomerName	CustomerGender	CustomerPhone	CustomerAddress
1	CU001	Franky	Male	08566543338	Daan mogot baru Street no 6
2	CU002	Ms. Emalia Dewi	Female	085264782135	Tanjung Duren Street no 185
3	CU003	Ms. Elysia Chen	Female	085754206611	Kebon Jeruk Street no 120
4	CU004	Brando Kartawijaya	Male	081170225561	Greenvil Street no 88
5	CU005	Andy Putra	Male	087751321421	Sunter Street no 42

8. Change CustomerAddress into 'Daan Mogot Baru Street No. 23' on **MsCustomer** table for every customer that has been served by staff whose name is 'Indra Saswita' and the transaction occurred on Thursday. Then display all data on **MsCustomer** table.
(update, in, exists, datetime, weekday)

	CustomerId	CustomerName	CustomerGender	CustomerPhone	CustomerAddress
1	CU001	Franky	Male	08566543338	Daan Mogot Baru Street No. 23
2	CU002	Emalia Dewi	Female	085264782135	Tanjung Duren Street no 185
3	CU003	Elysia Chen	Female	085754206611	Kebon Jeruk Street no 120
4	CU004	Brando Kartawijaya	Male	081170225561	Greenvil Street no 88
5	CU005	Andy Putra	Male	087751321421	Sunter Street no 42

update MsCustomer

set CustomerAddress = 'Daan Mogot Baru Street No. 23'

where exists (select CustomerId from HeaderSalonServices
where(MsCustomer.CustomerId = HeaderSalonServices.CustomerId)
and (StaffId in (select StaffId from MsStaff where StaffName = 'Indra Saswita'))
and (datetime (weekday, TransactionDate) = 'Thursday'))

9. Delete data on **HeaderSalonServices** table for every transaction which is done by the customer whose name doesn't contains space. Then display all data on **HeaderSalonServices** table.
(delete, join, charindex)

Before deleted:

	TransactionId	CustomerId	StaffId	TransactionDate	Payment Type
1	TR001	CU001	SF004	2012-12-20	Credit
2	TR002	CU002	SF005	2012-12-20	Credit
3	TR003	CU003	SF003	2012-12-20	Cash
4	TR004	CU004	SF005	2012-12-20	Debit
5	TR005	CU005	SF003	2012-12-21	Debit
6	TR006	CU001	SF005	2012-12-21	Credit
7	TR007	CU002	SF001	2012-12-22	Cash
8	TR008	CU003	SF002	2012-12-22	Credit
9	TR009	CU005	SF004	2012-12-22	Debit
10	TR010	CU001	SF004	2012-12-23	Credit
11	TR011	CU002	SF006	2012-12-24	Credit
12	TR012	CU003	SF007	2012-12-24	Cash
13	TR013	CU004	SF005	2012-12-25	Debit
14	TR014	CU005	SF007	2012-12-25	Debit
15	TR015	CU005	SF005	2012-12-26	Credit
16	TR016	CU002	SF001	2012-12-26	Cash
17	TR017	CU003	SF002	2012-12-26	Credit
18	TR018	CU005	SF001	2012-12-27	Debit
19	TR019	CU005	SF004	2015-12-20	Credit

After deleted:

	TransactionId	CustomerId	StaffId	TransactionDate	Payment Type
1	TR002	CU002	SF005	2012-12-20	Credit
2	TR003	CU003	SF003	2012-12-20	Cash
3	TR004	CU004	SF005	2012-12-20	Debit
4	TR005	CU005	SF003	2012-12-21	Debit
5	TR007	CU002	SF001	2012-12-22	Cash
6	TR008	CU003	SF002	2012-12-22	Credit
7	TR009	CU005	SF004	2012-12-22	Debit
8	TR011	CU002	SF006	2012-12-24	Credit
9	TR012	CU003	SF007	2012-12-24	Cash
10	TR013	CU004	SF005	2012-12-25	Debit
11	TR014	CU005	SF007	2012-12-25	Debit
12	TR015	CU005	SF005	2012-12-26	Credit
13	TR016	CU002	SF001	2012-12-26	Cash
14	TR017	CU003	SF002	2012-12-26	Credit
15	TR018	CU005	SF001	2012-12-27	Debit
16	TR019	CU005	SF004	2015-12-20	Credit

10. Delete data on **MsTreatment** table for every treatment which type doesn't contains 'treatment' word. Then display all data on **MsTreatment** table.
(delete, in, not like)

Before deleted:

	TreatmentId	TreatmentTypeId	TreatmentName	Price
1	TM001	TT001	Cutting by Stylist	150000.00
2	TM002	TT001	Cutting by Top Stylist	450000.00
3	TM003	TT001	Cutting Pony	50000.00
4	TM004	TT001	Blow	90000.00
5	TM005	TT001	Coloring	480000.00
6	TM006	TT001	Highlight	320000.00
7	TM007	TT001	Japanese Perm	700000.00
8	TM008	TT001	Digital Perm	1100000.00
9	TM009	TT001	Special Perm	1100000.00
10	TM010	TT001	Rebonding Treatment	1100000.00
11	TM011	TT002	Creambath	150000.00
12	TM012	TT002	Hair Spa	250000.00
13	TM013	TT002	Hair Mask	250000.00
14	TM014	TT002	Hand Spa Reflexy	200000.00
15	TM015	TT002	Reflexy	250000.00
16	TM016	TT002	Back Theraphy Massage	300000.00
17	TM017	TT003	Make Up	500000.00
18	TM018	TT003	Make Up Wedding	5000000.00
19	TM019	TT003	Facial	300000.00
20	TM020	TT004	Manicure	80000.00
21	TM021	TT004	Pedicure	100000.00
22	TM022	TT004	Nail Extension	250000.00
23	TM023	TT004	Nail Acrylic Infill	340000.00
24	TM024	TT005	Japanese Treatment	350000.00
25	TM025	TT005	Scalp Treatment	250000.00
26	TM026	TT005	Crystal Treatment	400000.00

After deleted:

	TreatmentId	TreatmentTypeId	TreatmentName	Price
1	TM001	TT001	Cutting by Stylist	150000.00
2	TM002	TT001	Cutting by Top Stylist	450000.00
3	TM003	TT001	Cutting Pony	50000.00
4	TM004	TT001	Blow	90000.00
5	TM005	TT001	Coloring	480000.00
6	TM006	TT001	Highlight	320000.00
7	TM007	TT001	Japanese Perm	700000.00
8	TM008	TT001	Digital Perm	1100000.00
9	TM009	TT001	Special Perm	1100000.00
10	TM010	TT001	Rebonding Treatment	1100000.00
11	TM020	TT004	Manicure	80000.00
12	TM021	TT004	Pedicure	100000.00
13	TM022	TT004	Nail Extension	250000.00
14	TM023	TT004	Nail Acrylic Infill	340000.00
15	TM024	TT005	Japanese Treatment	350000.00
16	TM025	TT005	Scalp Treatment	250000.00
17	TM026	TT005	Crystal Treatment	400000.00