


Practicum Case	
ISYS6169 T0206 Database Systems	
Information Systems	E1-ISYS6123-AM01
<i>Valid on Even Semester Year 2019/2020</i>	Revision 00

Learning Outcomes

- Apply database language and SQL Programming language
- Evaluate database processing and security Mechanism

Topic

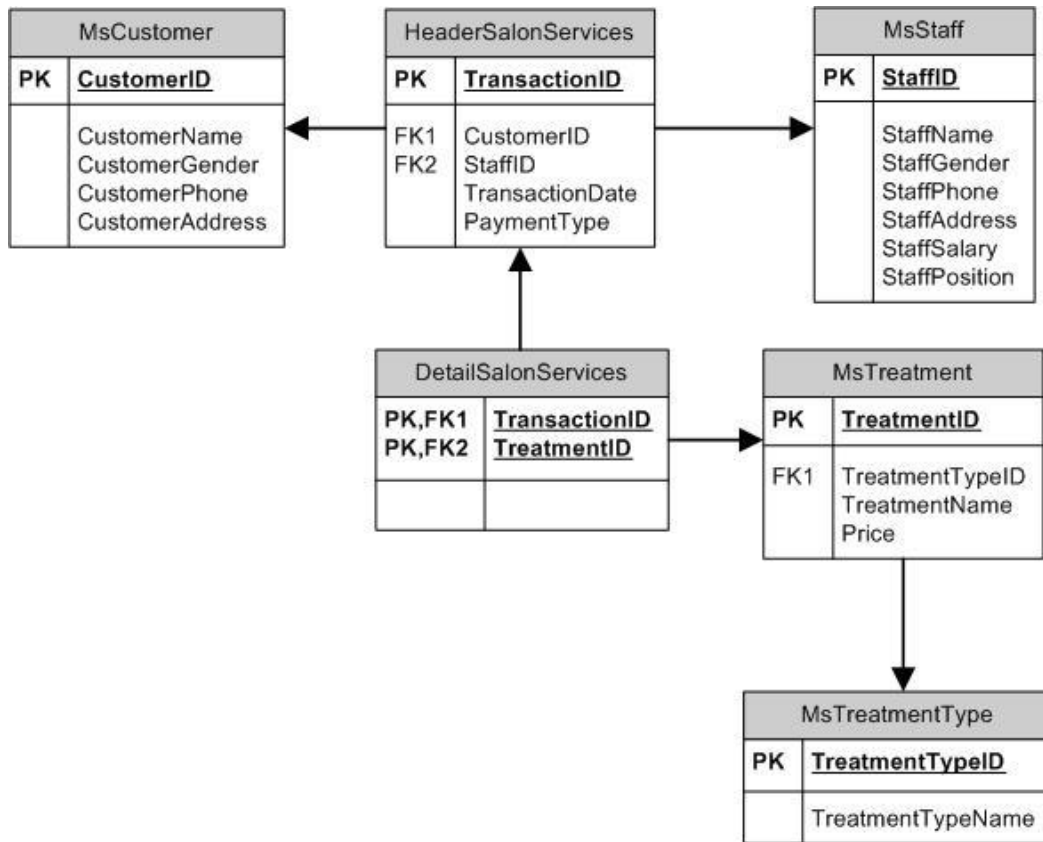
- Session 08 - SQL – Data Definition (2)

Sub Topics

- **Create and Update View**
- **Dropping Views**
- Access control : GRANT and REVOKE command

Tabel Relasional

Relational Table



Sintaks*Syntax***Create view**Create view **view_name**

[(column ,)]

As subquery

[with check option]

Drop ViewDrop view [**view_name**]

Soal*Case*

1. Create a view named 'ViewBonus' to display BinusId (obtained from CustomerID by replacing the first 2 characters with 'BN '), and CustomerName for every customer whose name is more than 10 characters.

(create view, stuff, len)

	BinusId	CustomerName
1	BN002	Emalia Dewi
2	BN003	Elysia Chen
3	BN004	Brando Kartawijaya

2. Create a view named 'ViewCustomerData' to display Name (obtained from customer's name from the first character until a character before space), Address (obtained from CustomerAddress), and Phone (obtained from CustomerPhone) for every customer whose name contains space.

(create view, substring, charindex)

	Name	Address	Phone
1	Emalia	Tanjung Duren Street no 185	085264782135
2	Elysia	Kebon Jeruk Street no 120	085754206611
3	Brando	Greenvil Street no 88	081170225561
4	Andy	Sunter Street no 42	087751321421

3. Create a view named 'ViewTreatment' to display TreatmentName, TreatmentTypeName, Price (obtained from Price by adding 'Rp. ' in front of Price) for every treatment which type is 'Hair Treatment' and price is between 450000 and 800000.

(create view, cast, between)

	TreatmentName	TreatmentTypeName	Price
1	Cutting by Top Stylist	Hair Treatment	Rp. 450000.00
2	Coloring	Hair Treatment	Rp. 480000.00
3	Japanese Perm	Hair Treatment	Rp. 700000.00

4. Create a view named 'ViewTransaction' to display StaffName, CustomerName, TransactionDate (obtained from TransactionDate in 'dd mon yyyy' format), and PaymentType for every transaction which the transaction is between 21st and 25th day and was paid by 'Credit'.

(create view, convert, day, between)

	StaffName	CustomerName	TransactionDate	PaymentType
1	Ryan Nixon Salim	Franky	21 Dec 2012	Credit
2	Mellisa Pratiwi	Elysia Chen	22 Dec 2012	Credit

5. Create a view named 'ViewBonusCustomer' to display BonusId (obtained from CustomerId by replacing 'CU' with 'BN'), Name (Obtained from Customer's last name in lower case format), Day (obtained from the day when the transaction happened), and TransactionDate (obtained from TransactionDate in 'mm/dd/yy' format) for every transaction which customer's name contains space and customer's last name contains 'a' character.

(create view, replace, lower, reverse, substring, charindex, datename, weekday, convert, like)

	BonusId	Name	Day	TransactionDate
1	BN004	kartawijaya	Thursday	12/20/2012
2	BN005	putra	Friday	12/21/2012
3	BN005	putra	Saturday	12/22/2012

6. Create a view named 'ViewTransactionByLivia' to display TransactionId, Date (obtained from TransactionDate in 'Mon dd, yyyy' format), and TreatmentName for every transaction which occurred on the 21st day and handled by staff whose name is 'Livia Ashianti'.

(create view, convert, day, like)

	TransactionId	Date	TreatmentName
1	TR005	Dec 21, 2012	Back Therapy Massage

7. Change the view named 'ViewCustomerData' to ID (obtained from the last 3 digit characters of CustomerID), Name (obtained from CustomerName), Address (obtained from CustomerAddress), and Phone (obtained from CustomerPhone) for every customer whose name contains space.

(alter view, right, charindex)

	ID	Name	Address	Phone
1	002	Emalia Dewi	Tanjung Duren Street no 185	085264782135
2	003	Elysia Chen	Kebon Jeruk Street no 120	085754206611
3	004	Brando Kartawijaya	Greenvil Street no 88	081170225561
4	005	Andy Putra	Sunter Street no 42	087751321421

8. Create a view named 'ViewCustomer' to display CustomerId, CustomerName, CustomerGender from MsCustomer, then add the data to ViewCustomer with the following specifications:

CustomerID	CustomerName	CustomerGender
CU006	Cristian	Male

(create view, insert)

	CustomerId	CustomerName	CustomerGender	CustomerPhone	CustomerAddress
1	CU001	Franky	Male	08566543338	Daan mogot baru Street no 6
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
6	CU006	Cristian	Male	NULL	NULL

9. Delete data in view 'ViewCustomerData' that has ID '005'. Then display all data from **ViewCustomerData**.
(delete)

	ID	Name	Address	Phone
1	002	Emalia Dewi	Tanjung Duren Street no 185	085264782135
2	003	Elysia Chen	Kebon Jeruk Street no 120	085754206611
3	004	Brando Kartawijaya	Greenvil Street no 88	081170225561
4	005	Andy Putra	Sunter Street no 42	087751321421

	ID	Name	Address	Phone
1	002	Emalia Dewi	Tanjung Duren Street no 185	085264782135
2	003	Elysia Chen	Kebon Jeruk Street no 120	085754206611
3	004	Brando Kartawijaya	Greenvil Street no 88	081170225561

10. Delete the view named 'ViewCustomerData'.
(drop view)