Alfi Futuhi

Assignments 4

9 April 2021

1. Membuat Tabel

----------------------------------TABEL-----------------------------------------

-----------------------Membuat Tabel Person (Master)

CREATE TABLE TB\_M\_Person(

NIK varchar(50) NOT NULL PRIMARY KEY,

FirstName varchar(50) NOT NULL,

LastName varchar(50) NOT NULL,

Phone varchar(50) NULL,

BirthDate date NULL,

Salary int NULL,

Email varchar(50) NULL

)

/\* Reset Table

DROP TABLE TB\_M\_Person;

\*/

--------------------Membuat Tabel University (Master)

CREATE TABLE TB\_M\_University(

[id number] varchar(50) NOT NULL PRIMARY KEY,

[Name] varchar(50) NOT NULL

)

/\* Reset Table

DROP TABLE TB\_M\_University;

\*/

--------------------------Membuat Tabel Account

CREATE TABLE TB\_Account(

NIK varchar(50) NOT NULL PRIMARY KEY REFERENCES TB\_M\_Person(NIK),

[Password] varchar(50) NOT NULL

)

/\* Reset Table

DROP TABLE TB\_Account;

\*/

---------------------Membuat Tabel Education

CREATE TABLE TB\_Education(

Id varchar(50) NOT NULL PRIMARY KEY,

Degree varchar(50) NOT NULL,

GPA varchar(50) NOT NULL,

University\_Id varchar(50) NOT NULL REFERENCES TB\_M\_University([Id number])

)

/\* Reset Table

DROP TABLE TB\_Education;

\*/

-----------------------Membuat Tabel Profiling

CREATE TABLE TB\_Profiling(

NIK varchar(50) NOT NULL PRIMARY KEY REFERENCES TB\_Account(NIK),

Education\_Id varchar(50) NOT NULL REFERENCES TB\_Education(Id)

)

/\* Reset Table

DROP TABLE TB\_Profiling;

\*/

2. Membuat SP untuk Insert Tabel

----------------------------------STORE PROCEDURE-------------------------------

GO

----------------------------SP FOR INSERTING DATA Table Person----------------

--Create Sequence for Table Person

CREATE SEQUENCE SQ\_Person

AS INT

START WITH 1

INCREMENT BY 1;

GO

/\*RESET SQ\_Person

DROP SEQUENCE SQ\_Person

\*/

--Insert Data into Table Person

CREATE PROCEDURE SP\_InsertTB\_M\_Person

--@NIK AS varchar(50),

@FirstName AS varchar(50),

@LastName AS varchar(50),

@Phone AS varchar(50),

@BirthDate AS date,

@Salary AS int,

@Email AS varchar(50)

AS

BEGIN

DECLARE

@personid as varchar(50),

@seq as decimal = NEXT VALUE FOR SQ\_Person

SET

@personid = 'EMP040121' + RIGHT('0' + CAST(@seq AS varchar),2)

INSERT INTO TB\_M\_Person (NIK, FirstName, LastName, Phone, BirthDate, Salary, Email)

VALUES (@personid, @FirstName, @LastName, @Phone, @BirthDate, @Salary, @Email)

END;

GO

/\*RESET SP

DROP PROC SP\_InsertTB\_M\_Person

\*/

--Trigger After Insert untuk membuat format NIK EMP04012101 dst

CREATE TRIGGER TR\_InsertTB\_M\_Person

ON TB\_M\_Person AFTER INSERT

AS

BEGIN

DECLARE

@nik as varchar(50),

@pass as varchar(50)

SELECT

@nik = j.NIK

FROM inserted j

SET

@pass = 'Password.' + @nik

INSERT INTO TB\_Account

VALUES (@nik,@pass)

END;

GO

/\*RESET ALL ABOUT TB\_M\_Person

DROP PROC SP\_InsertTB\_M\_Person;

DROP TRIGGER TR\_InsertTB\_M\_Person;

DROP SEQUENCE SQ\_Person;

\*/

--Execute insertnya

EXEC SP\_InsertTB\_M\_Person 'Alfan','Aisy','8085866535091','1999-11-07',5000000, 'alfanaisy7@gmail.com';

EXEC SP\_InsertTB\_M\_Person 'Alfatehan Arsya','Baharin','8087835053992','1998-09-08',5000000, 'alfatehanarsya8998@gmail.com';

EXEC SP\_InsertTB\_M\_Person 'Alfi', 'Futuhi', '8085782439757', '1997-05-03', 5000000, 'alfi.futuhi13@gmail.com';

EXEC SP\_InsertTB\_M\_Person 'Anindya Sabrina','Pangesti','8087839217981','1997-11-17', 5000000, 'pangestianin@gmail.com';

EXEC SP\_InsertTB\_M\_Person 'Daniel', 'Chandra','8085777337338','1997-08-17', 5000000, 'danielchandra1.dc@gmail.com';

GO

--Membuat SP Untuk Select TB\_M\_Person

CREATE PROC SP\_SelectTB\_M\_Person

AS

BEGIN

SELECT \* FROM TB\_M\_Person

END;

GO

/\*

DROP PROC SP\_Select\_TB\_M\_Person

\*/

--Menampilkan TB\_M\_Person

EXEC SP\_SelectTB\_M\_Person;

GO

/\*RESET SP

DROP PROC SP\_InsertTB\_M\_Person;

\*/

----------------Membuat SP Untuk Select TB\_Account (Hasil Trigger)

CREATE PROC SP\_SelectTB\_Account

AS

BEGIN

SELECT \* FROM TB\_Account

END;

GO

--Menampilkan TB\_Account

EXEC SP\_SelectTB\_Account;

GO

---------------------------SP FOR INSERTING INTO Tabel University-----------------------

--Create Suquence univ

CREATE SEQUENCE SQ\_Univ

AS INT

START WITH 1

INCREMENT BY 1

GO

/\*Reset squence

DROP SEQUENCE SQ\_Univ;

\*/

--Insert Data Into Tabel University

CREATE PROCEDURE SP\_InsertTB\_M\_University

--@Id AS varchar(50),

@Name as varchar(50)

AS

BEGIN

INSERT INTO TB\_M\_University([Id number], [Name])

VALUES (NEXT VALUE FOR SQ\_Univ, @Name)

END;

GO

/\*Reset proc

DROP PROC SP\_InsertTB\_M\_University

\*/

--Trigger After Insert untuk membuat format Id Univ01 dst

CREATE TRIGGER TR\_InsertTB\_M\_University

ON TB\_M\_University AFTER INSERT

AS

BEGIN

UPDATE TB\_M\_University

SET

[id number] = 'Univ' + RIGHT('0' + CAST(i.[id number] AS varchar),2)

FROM

inserted i

WHERE

i.[id number] = TB\_M\_University.[id number]

END;

GO

/\*RESET ALL ABOUT TB\_M\_University

DROP PROC SP\_InsertTB\_M\_University;

DROP TRIGGER TR\_InsertTB\_M\_University;

DROP SEQUENCE SQ\_Univ;

\*/

--Execute insertnya

EXEC SP\_InsertTB\_M\_University 'Universitas A';

EXEC SP\_InsertTB\_M\_University 'Universitas B';

EXEC SP\_InsertTB\_M\_University 'Universitas C';

EXEC SP\_InsertTB\_M\_University 'Universitas D';

EXEC SP\_InsertTB\_M\_University 'Universitas E';

GO

--Membuat SP Untuk Select TB\_M\_University

CREATE PROC SP\_SelectTB\_M\_University

AS

BEGIN

SELECT \* FROM TB\_M\_University

END;

GO

/\*

DROP PROC SP\_SelectTB\_M\_University

\*/

--Menampilkan TB\_M\_University

EXEC SP\_SelectTB\_M\_University;

GO

-------------------------SP FOR INSERTING INTO Tabel Education---------------------

--Create Suquence Education

CREATE SEQUENCE SQ\_Edu

AS INT

START WITH 1

INCREMENT BY 1

GO

/\*Reset squence

DROP SEQUENCE SQ\_Edu;

\*/

--Insert Data Into Tabel University

CREATE PROCEDURE SP\_InsertTB\_Education

--@Id AS varchar(50),

@Degree as varchar(50),

@GPA as varchar(50),

@University\_Id as varchar(50)

AS

BEGIN

INSERT INTO TB\_Education(Id, Degree, GPA, University\_Id)

VALUES (NEXT VALUE FOR SQ\_Edu, @Degree, @GPA, @University\_Id)

END;

GO

/\*Reset proc

DROP PROC SP\_InsertTB\_Education

\*/

--Trigger After Insert untuk membuat format Id Edu01 dst

CREATE TRIGGER TR\_InsertTB\_Education

ON TB\_Education AFTER INSERT

AS

BEGIN

UPDATE TB\_Education

SET

Id = 'Edu' + RIGHT('0' + CAST(i.Id AS varchar),2),

Degree =

CASE

WHEN i.Degree = 'S1' THEN 'Sarjana'

WHEN i.Degree = 'S2' THEN 'Master'

WHEN i.Degree = 'S3' THEN 'Doctor'

END

FROM

inserted i

WHERE

i.Id = TB\_Education.Id

END;

GO

/\*RESET ALL ABOUT TB\_Education

DROP PROC SP\_InsertTB\_Education;

DROP TRIGGER TR\_InsertTB\_Education;

DROP SEQUENCE SQ\_Edu;

\*/

--Execute insertnya

EXEC SP\_InsertTB\_Education 'S1', '3.66', 'Univ01';

EXEC SP\_InsertTB\_Education 'S1', '3.69', 'Univ02';

EXEC SP\_InsertTB\_Education 'S1', '3.69', 'Univ03';

EXEC SP\_InsertTB\_Education 'S1', '3.66', 'Univ04';

EXEC SP\_InsertTB\_Education 'S1', '3.69', 'Univ05';

GO

/\* Tes insert selain s1 s2 s3

EXEC SP\_InsertTB\_Education 'S9', '3.69', 'Univ69';

\*/

--Membuat SP Untuk Select TB\_Education

CREATE PROC SP\_SelectTB\_Education

AS

BEGIN

SELECT \* FROM TB\_Education

END;

GO

/\*

DROP PROC SP\_SelectTB\_Education

\*/

--Menampilkan TB\_Education

EXEC SP\_SelectTB\_Education

GO

--------------------------------SP FOR INSERTING INTO Tabel Profiling------------------

--Create Suquence Profiling

/\*CREATE SEQUENCE SQ\_Profiling

AS INT

START WITH 1

INCREMENT BY 1

GO\*/

/\*Reset squence

DROP SEQUENCE SQ\_Profiling;

\*/

--Insert Data Into Tabel University

CREATE PROCEDURE SP\_InsertTB\_Profiling

@NIK AS varchar(50),

@Education\_Id as varchar(50)

AS

BEGIN

INSERT INTO TB\_Profiling(NIK, Education\_Id)

VALUES (@NIK, @Education\_Id)

END;

GO

/\*Reset proc

DROP PROC SP\_InsertTB\_Profiling

\*/

--Trigger After Insert untuk membuat format Id Edu01 dst

/\*CREATE TRIGGER TR\_InsertTB\_Profiling

ON TB\_Profiling AFTER INSERT

AS

BEGIN

UPDATE TB\_Profiling

SET

NIK = 'EMP040121' + RIGHT('0' + CAST(i.NIK AS varchar),2)

FROM

inserted i

WHERE

i.NIK = TB\_Profiling.NIK

END;

GO\*/

/\*RESET ALL ABOUT TB\_Profiling

DROP PROC SP\_InsertTB\_Profiling;

--DROP TRIGGER TR\_InsertTB\_Profiling;

DROP SEQUENCE SQ\_Profiling;

\*/

--Execute insertnya

EXEC SP\_InsertTB\_Profiling 'EMP04012101','Edu01';

EXEC SP\_InsertTB\_Profiling 'EMP04012102','Edu02';

EXEC SP\_InsertTB\_Profiling 'EMP04012103','Edu03';

EXEC SP\_InsertTB\_Profiling 'EMP04012104','Edu04';

EXEC SP\_InsertTB\_Profiling 'EMP04012105','Edu05';

GO

--Membuat SP Untuk Select TB\_Profiling

CREATE PROC SP\_SelectTB\_Profiling

AS

BEGIN

SELECT \* FROM TB\_Profiling

END;

GO

/\*

DROP PROC SP\_SelectTB\_Profiling

\*/

--Menampilkan TB\_Profiling

EXEC SP\_SelectTB\_Profiling

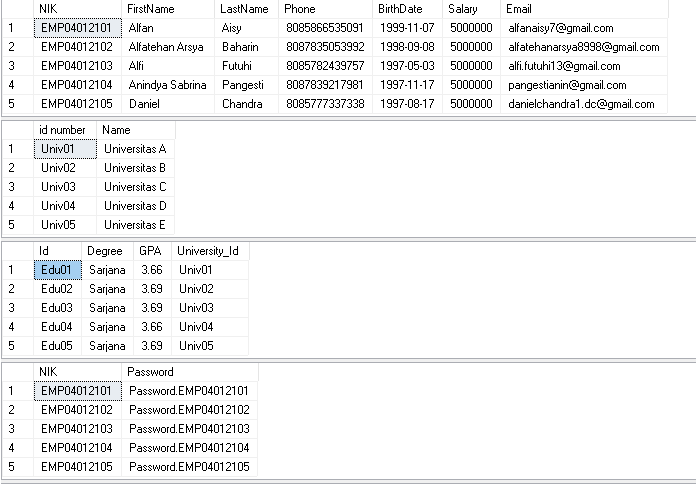
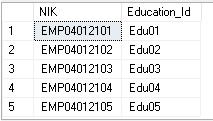
GO

/\*RESET SP

DROP PROC SP\_InsertTB\_Profiling;

\*/

OUTPUT:



MENAMPILKAN DATA PADA NOMOR 4

--------------------------NOMOR 4: SP Buat tampilin semua data yang diminta-------------

CREATE PROC SP\_RetrieveTB\_M\_PersonTB\_Account

AS

BEGIN

SELECT

CONCAT('Tn/Ny ', p.FirstName , ' ',p.LastName) as 'Full Name',

p.Phone, --Nanti gantinya

FORMAT(p.BirthDate, 'dd-MMMM-yy') as 'BirthDate',

CONCAT('Rp. ' , FORMAT(p.Salary, 'N')) as 'Salary'

FROM

TB\_M\_Person p

LEFT JOIN TB\_Account a ON p.NIK = a.NIK

END;

GO

EXEC SP\_RetrieveTB\_M\_PersonTB\_Account;

GO

/\*

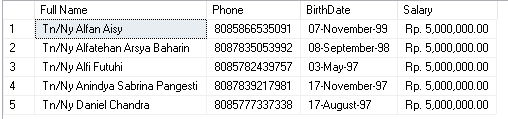
DROP PROC SP\_RetrieveTB\_M\_PersonTB\_Account;

EXEC SP\_SelectTB\_M\_Person;

EXEC SP\_SelectTB\_Account;

\*/

OUTPUT:



MENAMPILKAN DATA PADA NOMOR 5

CREATE PROCEDURE SP\_RetrieveTB\_all

AS

BEGIN

SELECT

TB\_M\_Person.nik NIK,

CONCAT('Tn/Ny', ' ', firstName, ' ', lastName) AS 'Full Name',

TB\_Education.degree AS Degree,

TB\_M\_University.name AS University

FROM

TB\_M\_Person

INNER JOIN TB\_Profiling ON TB\_M\_Person.NIK = TB\_Profiling.NIK

INNER JOIN TB\_Education ON TB\_Profiling.Education\_Id = TB\_Education.id

INNER JOIN TB\_M\_University ON TB\_Education.University\_Id = TB\_M\_University.[id number]

ORDER BY 'Full Name' ASC

END;

GO

EXEC SP\_RetrieveTB\_all;

OUTPUT:

