**LAPORAN PRAKTIKUM**

**BASIS DATA**



**DISUSUN OLEH**

**ILHAM NUR ROMDONI M0520038**

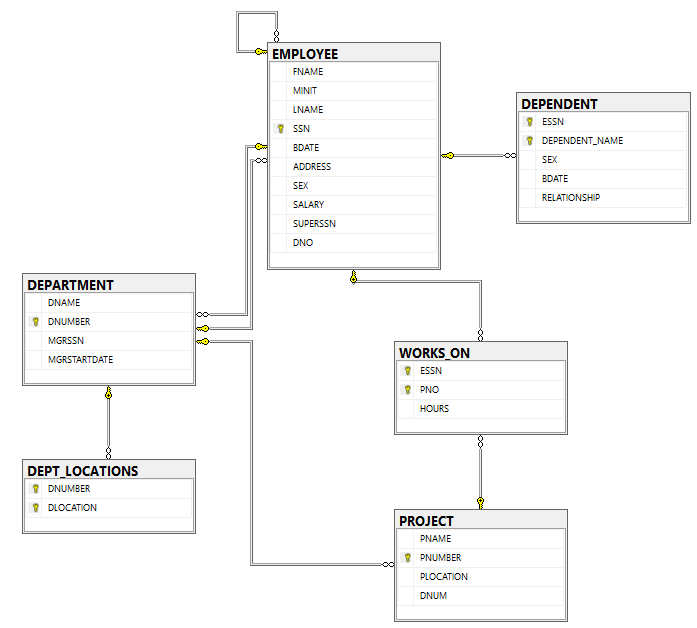
**PROGRAM INFORMATIKA**

**FAKULTAS MIPA**

**UNIVERSITAS SEBELAS MARET**

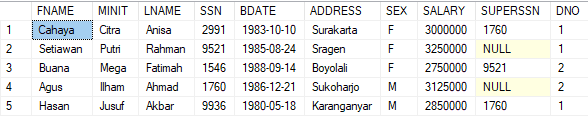
**2021**

**Diagram**

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**Data per Tabel (show top 1000)**

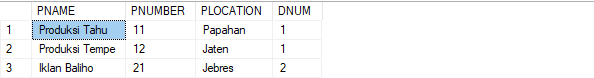
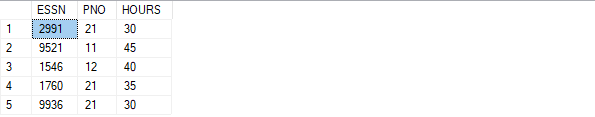
**EMPLOYEE**

****

**DEPARTMENT DEPT\_LOCATIONS**

** **

**PROJECT WORKS\_ON**

** **

**DEPENDENT**

****

**Kode SQL**

USE [master]

GO

/\*\*\*\*\*\* Object: Database [COMPANY] Script Date: 22/10/2021 18:24:43 \*\*\*\*\*\*/

CREATE DATABASE [COMPANY]

CONTAINMENT = NONE

ON PRIMARY

( NAME = N'COMPANY', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA\COMPANY.mdf' , SIZE = 8192KB , MAXSIZE = UNLIMITED, FILEGROWTH = 65536KB )

LOG ON

( NAME = N'COMPANY\_log', FILENAME = N'C:\Program Files\Microsoft SQL Server\MSSQL15.MSSQLSERVER\MSSQL\DATA\COMPANY\_log.ldf' , SIZE = 8192KB , MAXSIZE = 2048GB , FILEGROWTH = 65536KB )

WITH CATALOG\_COLLATION = DATABASE\_DEFAULT

GO

ALTER DATABASE [COMPANY] SET COMPATIBILITY\_LEVEL = 150

GO

IF (1 = FULLTEXTSERVICEPROPERTY('IsFullTextInstalled'))

begin

EXEC [COMPANY].[dbo].[sp\_fulltext\_database] @action = 'enable'

end

GO

ALTER DATABASE [COMPANY] SET ANSI\_NULL\_DEFAULT OFF

GO

ALTER DATABASE [COMPANY] SET ANSI\_NULLS OFF

GO

ALTER DATABASE [COMPANY] SET ANSI\_PADDING OFF

GO

ALTER DATABASE [COMPANY] SET ANSI\_WARNINGS OFF

GO

ALTER DATABASE [COMPANY] SET ARITHABORT OFF

GO

ALTER DATABASE [COMPANY] SET AUTO\_CLOSE OFF

GO

ALTER DATABASE [COMPANY] SET AUTO\_SHRINK OFF

GO

ALTER DATABASE [COMPANY] SET AUTO\_UPDATE\_STATISTICS ON

GO

ALTER DATABASE [COMPANY] SET CURSOR\_CLOSE\_ON\_COMMIT OFF

GO

ALTER DATABASE [COMPANY] SET CURSOR\_DEFAULT GLOBAL

GO

ALTER DATABASE [COMPANY] SET CONCAT\_NULL\_YIELDS\_NULL OFF

GO

ALTER DATABASE [COMPANY] SET NUMERIC\_ROUNDABORT OFF

GO

ALTER DATABASE [COMPANY] SET QUOTED\_IDENTIFIER OFF

GO

ALTER DATABASE [COMPANY] SET RECURSIVE\_TRIGGERS OFF

GO

ALTER DATABASE [COMPANY] SET DISABLE\_BROKER

GO

ALTER DATABASE [COMPANY] SET AUTO\_UPDATE\_STATISTICS\_ASYNC OFF

GO

ALTER DATABASE [COMPANY] SET DATE\_CORRELATION\_OPTIMIZATION OFF

GO

ALTER DATABASE [COMPANY] SET TRUSTWORTHY OFF

GO

ALTER DATABASE [COMPANY] SET ALLOW\_SNAPSHOT\_ISOLATION OFF

GO

ALTER DATABASE [COMPANY] SET PARAMETERIZATION SIMPLE

GO

ALTER DATABASE [COMPANY] SET READ\_COMMITTED\_SNAPSHOT OFF

GO

ALTER DATABASE [COMPANY] SET HONOR\_BROKER\_PRIORITY OFF

GO

ALTER DATABASE [COMPANY] SET RECOVERY FULL

GO

ALTER DATABASE [COMPANY] SET MULTI\_USER

GO

ALTER DATABASE [COMPANY] SET PAGE\_VERIFY CHECKSUM

GO

ALTER DATABASE [COMPANY] SET DB\_CHAINING OFF

GO

ALTER DATABASE [COMPANY] SET FILESTREAM( NON\_TRANSACTED\_ACCESS = OFF )

GO

ALTER DATABASE [COMPANY] SET TARGET\_RECOVERY\_TIME = 60 SECONDS

GO

ALTER DATABASE [COMPANY] SET DELAYED\_DURABILITY = DISABLED

GO

ALTER DATABASE [COMPANY] SET ACCELERATED\_DATABASE\_RECOVERY = OFF

GO

EXEC sys.sp\_db\_vardecimal\_storage\_format N'COMPANY', N'ON'

GO

ALTER DATABASE [COMPANY] SET QUERY\_STORE = OFF

GO

USE [COMPANY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[DEPARTMENT] Script Date: 22/10/2021 18:24:43 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[DEPARTMENT](

[DNAME] [nvarchar](50) NOT NULL,

[DNUMBER] [bigint] NOT NULL,

[MGRSSN] [smallint] NOT NULL,

[MGRSTARTDATE] [date] NOT NULL,

CONSTRAINT [PK\_DEPARTMENT\_1] PRIMARY KEY CLUSTERED

(

[DNUMBER] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[DEPENDENT] Script Date: 22/10/2021 18:24:43 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[DEPENDENT](

[ESSN] [smallint] NOT NULL,

[DEPENDENT\_NAME] [nvarchar](50) NOT NULL,

[SEX] [char](1) NOT NULL,

[BDATE] [date] NOT NULL,

[RELATIONSHIP] [nvarchar](50) NOT NULL,

CONSTRAINT [PK\_DEPENDENT\_1] PRIMARY KEY CLUSTERED

(

[ESSN] ASC,

[DEPENDENT\_NAME] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[DEPT\_LOCATIONS] Script Date: 22/10/2021 18:24:43 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[DEPT\_LOCATIONS](

[DNUMBER] [bigint] NOT NULL,

[DLOCATION] [nvarchar](50) NOT NULL,

CONSTRAINT [PK\_DEPT\_LOCATIONS] PRIMARY KEY CLUSTERED

(

[DNUMBER] ASC,

[DLOCATION] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[EMPLOYEE] Script Date: 22/10/2021 18:24:43 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[EMPLOYEE](

[FNAME] [nvarchar](50) NOT NULL,

[MINIT] [nvarchar](50) NOT NULL,

[LNAME] [nvarchar](50) NOT NULL,

[SSN] [smallint] NOT NULL,

[BDATE] [date] NOT NULL,

[ADDRESS] [text] NOT NULL,

[SEX] [char](1) NOT NULL,

[SALARY] [int] NOT NULL,

[SUPERSSN] [smallint] NULL,

[DNO] [bigint] NOT NULL,

CONSTRAINT [PK\_EMPLOYEE] PRIMARY KEY CLUSTERED

(

[SSN] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY] TEXTIMAGE\_ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[PROJECT] Script Date: 22/10/2021 18:24:43 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[PROJECT](

[PNAME] [nvarchar](50) NOT NULL,

[PNUMBER] [bigint] NOT NULL,

[PLOCATION] [nvarchar](50) NOT NULL,

[DNUM] [bigint] NOT NULL,

CONSTRAINT [PK\_PROJECT\_1] PRIMARY KEY CLUSTERED

(

[PNUMBER] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

/\*\*\*\*\*\* Object: Table [dbo].[WORKS\_ON] Script Date: 22/10/2021 18:24:43 \*\*\*\*\*\*/

SET ANSI\_NULLS ON

GO

SET QUOTED\_IDENTIFIER ON

GO

CREATE TABLE [dbo].[WORKS\_ON](

[ESSN] [smallint] NOT NULL,

[PNO] [bigint] NOT NULL,

[HOURS] [smallint] NOT NULL,

CONSTRAINT [PK\_WORKS\_ON] PRIMARY KEY CLUSTERED

(

[ESSN] ASC,

[PNO] ASC

)WITH (PAD\_INDEX = OFF, STATISTICS\_NORECOMPUTE = OFF, IGNORE\_DUP\_KEY = OFF, ALLOW\_ROW\_LOCKS = ON, ALLOW\_PAGE\_LOCKS = ON, OPTIMIZE\_FOR\_SEQUENTIAL\_KEY = OFF) ON [PRIMARY]

) ON [PRIMARY]

GO

ALTER TABLE [dbo].[DEPARTMENT] WITH CHECK ADD CONSTRAINT [FK\_EMPLOYEE\_DEPARTMENT] FOREIGN KEY([MGRSSN])

REFERENCES [dbo].[EMPLOYEE] ([SSN])

GO

ALTER TABLE [dbo].[DEPARTMENT] CHECK CONSTRAINT [FK\_EMPLOYEE\_DEPARTMENT]

GO

ALTER TABLE [dbo].[DEPENDENT] WITH CHECK ADD CONSTRAINT [FK\_EMPLOYEE\_DEPENDENT] FOREIGN KEY([ESSN])

REFERENCES [dbo].[EMPLOYEE] ([SSN])

GO

ALTER TABLE [dbo].[DEPENDENT] CHECK CONSTRAINT [FK\_EMPLOYEE\_DEPENDENT]

GO

ALTER TABLE [dbo].[DEPT\_LOCATIONS] WITH CHECK ADD CONSTRAINT [FK\_DEPARTMENT\_DEPT\_LOCATIONS] FOREIGN KEY([DNUMBER])

REFERENCES [dbo].[DEPARTMENT] ([DNUMBER])

GO

ALTER TABLE [dbo].[DEPT\_LOCATIONS] CHECK CONSTRAINT [FK\_DEPARTMENT\_DEPT\_LOCATIONS]

GO

ALTER TABLE [dbo].[EMPLOYEE] WITH CHECK ADD CONSTRAINT [FK\_DEPARTMENT\_EMPLOYEE] FOREIGN KEY([DNO])

REFERENCES [dbo].[DEPARTMENT] ([DNUMBER])

GO

ALTER TABLE [dbo].[EMPLOYEE] CHECK CONSTRAINT [FK\_DEPARTMENT\_EMPLOYEE]

GO

ALTER TABLE [dbo].[EMPLOYEE] WITH CHECK ADD CONSTRAINT [FK\_EMPLOYEE\_EMPLOYEE] FOREIGN KEY([SUPERSSN])

REFERENCES [dbo].[EMPLOYEE] ([SSN])

GO

ALTER TABLE [dbo].[EMPLOYEE] CHECK CONSTRAINT [FK\_EMPLOYEE\_EMPLOYEE]

GO

ALTER TABLE [dbo].[PROJECT] WITH CHECK ADD CONSTRAINT [FK\_DEPARTMENT\_PROJECT] FOREIGN KEY([DNUM])

REFERENCES [dbo].[DEPARTMENT] ([DNUMBER])

GO

ALTER TABLE [dbo].[PROJECT] CHECK CONSTRAINT [FK\_DEPARTMENT\_PROJECT]

GO

ALTER TABLE [dbo].[WORKS\_ON] WITH CHECK ADD CONSTRAINT [FK\_EMPLOYEE\_WORKS\_ON] FOREIGN KEY([ESSN])

REFERENCES [dbo].[EMPLOYEE] ([SSN])

GO

ALTER TABLE [dbo].[WORKS\_ON] CHECK CONSTRAINT [FK\_EMPLOYEE\_WORKS\_ON]

GO

ALTER TABLE [dbo].[WORKS\_ON] WITH CHECK ADD CONSTRAINT [FK\_PROJECT\_WORKS\_ON] FOREIGN KEY([PNO])

REFERENCES [dbo].[PROJECT] ([PNUMBER])

GO

ALTER TABLE [dbo].[WORKS\_ON] CHECK CONSTRAINT [FK\_PROJECT\_WORKS\_ON]

GO

USE [master]

GO

ALTER DATABASE [COMPANY] SET READ\_WRITE

GO