# UJIAN AKHIR SEMESTER GANJIL 2022/ 2023 DATABASE SYSTEMS



# Database Systems Dennis Gunawan, S.Kom., M.Sc IF351 - B

**Ketua**: Maecyntha Irelynn Tantra (00000055038)

Anggota: 1. Gregory Kurniawan (00000056349)

2. Nayasha Clarisa Dwisutrisna (0000056883)

3. Aurelius Ivan Wijaya (00000054769)

**Topik**: McDonald's (Restaurant)

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# **PEMBAGIAN TUGAS**

1 Maecyntha Irelynn Tantra : • Nomor 1

• Nomor 4

• Nomor 5

2 Gregory Kurniawan : • Nomor 1

• Nomor 3

Nomor 5

3 Nayasha Clarisa Dwisutrisna : • DDL (adjustment from UTS)

Nomor 1

• Nomor 2

• Nomor 5

4 Aurelius Ivan Wijaya : • DML (adjustment from UTS)

• Nomor 1

• Nomor 4

• Nomor 5

# Catatan:

ERD & DATABASE SCHEMA ada di halaman Lampiran.

# Link Folder Google Drive:

 $\underline{https://drive.google.com/drive/folders/1C1mpC4POBS4DEVUFlMnYrxceejfT7cfN?usp=sharing}$ 

# **Data Definition Language (DDL)**

Terjadi perubahan pada: seluruh penamaan atribut, dan atribut pada table Transaction & Employee.

```
CREATE DATABASE McDonalds;
USE McDonalds;
CREATE TABLE Owner (
     owner id
                             CHAR(5) PRIMARY KEY,
     first name owner
                             VARCHAR(30) NOT NULL,
     last name owner
                             VARCHAR(30),
     email owner
                             VARCHAR(30) NOT NULL
);
CREATE TABLE Manager (
     manager id
                             CHAR(5) PRIMARY KEY,
     first name manager
                             VARCHAR(30) NOT NULL,
     last name manager
                             VARCHAR(30),
     email manager
                             VARCHAR(30) NOT NULL
);
CREATE TABLE Menu (
     menu id
                             CHAR(5) PRIMARY KEY,
     name menu
                             VARCHAR(30) NOT NULL,
     category
                             VARCHAR(30) NOT NULL,
     price menu
                             INT
);
CREATE TABLE Application (
     application id
                             CHAR(5) PRIMARY KEY,
     server location
                             VARCHAR(60) NOT NULL
);
CREATE TABLE Supplier (
     supplier id
                             CHAR(6) PRIMARY KEY,
     name supplier
                             VARCHAR(50) NOT NULL,
     address_supplier
                             VARCHAR(150),
     phone number supplier
                             VARCHAR(15) NOT NULL UNIQUE
);
CREATE TABLE Booker (
     booker id
                             CHAR(5) PRIMARY KEY,
```

```
name booker
                              VARCHAR(30) NOT NULL,
      email booker
                              VARCHAR(30),
      phone number booker
                              VARCHAR(15) NOT NULL UNIQUE
);
CREATE TABLE StoreMcD (
      store id
                              CHAR(5),
      name owner
                              VARCHAR(30) NOT NULL,
      location
                              VARCHAR(30) NOT NULL,
      first open
                              DATE,
      service
                              VARCHAR(30) NOT NULL,
      opening hours
                              TIME,
      closing hours
                              TIME,
      max_capacity
                              VARCHAR(5) NOT NULL,
      o id
                              CHAR(5),
      PRIMARY KEY (store id),
      Foreign Key(o id) References Owner(owner id)
);
CREATE TABLE UserApp (
      userApp id
                              CHAR(5) PRIMARY KEY,
      first name user
                              VARCHAR(30) NOT NULL,
      last name user
                              VARCHAR(30),
      address user
                              VARCHAR(50),
      phone number user
                              VARCHAR(15) NOT NULL UNIQUE,
      email user
                              VARCHAR(30) NOT NULL,
      password
                               VARCHAR(20) NOT NULL,
                              CHAR(5),
      app id
      Foreign Key(app id) References Application (application id)
);
CREATE TABLE Family Member (
      name fam
                              VARCHAR(30) PRIMARY KEY,
      gender fam
                              VARCHAR(15) NOT NULL,
      birth date fam
                              DATE,
      relation fam
                              VARCHAR(20) NOT NULL,
      mngr id
                              CHAR(5),
      Foreign Key(mngr id) References Manager(manager id)
);
CREATE TABLE Employee (
      employee id
                              CHAR(5) PRIMARY KEY,
      first name emp
                              VARCHAR(30) NOT NULL,
                              VARCHAR(30),
      last name emp
      position
                              VARCHAR(30) NOT NULL,
```

```
email emp
                                VARCHAR(30) NOT NULL,
      address emp
                                VARCHAR(100) NOT NULL,
                                INT NOT NULL,
      salary
      gender emp
                                VARCHAR(15) NOT NULL,
      birth date emp
                                DATE,
      join date emp
                                DATE,
      str id
                                CHAR(5),
      mngr id
                                CHAR(5),
      Foreign Key(str id) References StoreMcD(store id),
      Foreign Key(mngr id) References Manager(manager id)
);
CREATE TABLE Ingredient (
      ingredient id
                                CHAR(5) PRIMARY KEY,
      quantity
                                VARCHAR(5) NOT NULL,
      name ingredient
                                VARCHAR(30) NOT NULL,
      delivery date
                                DATE NOT NULL,
      m id
                                CHAR(5),
      sup id
                                CHAR(6),
      Foreign Key(m id) References Menu(menu id),
      Foreign Key(sup id) References Supplier(supplier id)
);
CREATE TABLE Sell (
      str id
                                CHAR(5),
      m id
                                CHAR(5),
      Foreign Key(str ID) References StoreMcD(store id),
      Foreign Key(m ID) References Menu(menu id)
);
CREATE TABLE Booking (
      book id
                          CHAR(5),
      user id
                          CHAR(5),
      str\_id
                          CHAR(5),
      e id
                          CHAR(5),
      app id
                          CHAR(5),
      price book
                          INT NOT NULL,
      event book
                          VARCHAR(30),
      date book
                         DATE NOT NULL,
      time book
                         TIME NOT NULL,
      Foreign Key(book id) References Booker(booker id),
      Foreign Key(user id) References UserApp(userApp id),
      Foreign Key(str id) References StoreMcD(store id),
      Foreign Key(e id) References Employee(employee id)
```

```
);
CREATE TABLE Transaction (
      user id
                                CHAR(5),
      str id
                                CHAR(5),
      e id
                                CHAR(5),
      app id
                                CHAR(5),
      m id
                                CHAR(5),
      address
                                VARCHAR(150),
      transaction number
                                VARCHAR(5) NOT NULL,
      transaction date
                                DATE NOT NULL,
                                INT NOT NULL,
      m qty
      Foreign Key(user id) References UserApp(userApp id),
      Foreign Key(m id) References Menu(menu id),
      Foreign Key(str id) References StoreMcD(store id),
      Foreign Key(e id) References Employee(employee id),
      Foreign Key(app id) References Application(application id)
);
CREATE TABLE Owner Phone Number (
      phone number owner
                                VARCHAR(15) UNIQUE,
      o id
                                CHAR(5),
      Foreign Key(o id) References Owner(owner id)
);
CREATE TABLE Employee Phone Number (
      phone number emp
                                VARCHAR(15) UNIQUE,
      e id
                                CHAR(5),
      Foreign Key(e id) References Employee(employee id)
);
CREATE TABLE Manager Phone Number (
                                VARCHAR(15) UNIQUE,
      phone number manager
      mngr id
                                CHAR(5),
      Foreign Key(mngr id) References Manager(manager id)
);
```

# **Data Manipulation Language (DML)**

Terjadi perubahan pada: atribut pada table Transaction, dan table Employee.

```
INSERT INTO Owner(owner ID, first name owner, last name owner, email owner)
VALUES
('O0001', 'Gregory', 'Kurniawan', 'gre.k@ymail.com'),
('O0002', 'Maecyntha', 'Irelynn', 'mae.irelynn@gmail.com'),
('O0003', 'Nayasha', 'Clarisa', 'nayacla@yahoo.com'),
('O0004', 'Aurelius', 'Ivan', 'ivan.aurelius@yahoo.com'),
('O0005', 'Asmodeus', 'White', 'asmo.white@gmail.com'),
('O0006', 'Albertus', 'Alvin', 'albert.alvin@ymail.com'),
('O0007', 'Nataniel', 'Edbert', 'edberttt@gmail.com'),
('O0008', 'Vanessa', 'Febry', 'vanessbry@noreply.com'),
('O0009', 'Castin', 'Hong', 'hong.to.hong@gmail.com'),
('O0010', 'Bryant', 'Richie', 'brichie@yahoo.com');
INSERT
            INTO
                      Manager(manager id,
                                                first name manager,
                                                                        last name manager,
email manager)
VALUES
('M0001', 'Jose', 'Virgiano', 'josevirgiano1@gmail.com'),
('M0002', 'Renfred', 'Leeman', 'renfredleeman7@gmail.com'),
('M0003', 'Giranda', 'Anugrah', 'girandaanugrah01@gmail.com'),
('M0004', 'Valerie', 'Kurniawan', 'valeriekurniawan06@gmail.com'),
('M0005', 'Joshua', 'Hotama', 'joshuahotama@gmail.com'),
('M0006', 'Vanessa', 'Kayleen', 'vanessakayleen12@gmail.com'),
('M0007', 'Reinhard', 'Anwari', 'reinhard2@gmail.com'),
('M0008', 'Nikodemus', 'Marcelino', 'nikomar@gmail.com'),
('M0009', 'Nicholas', 'Sebastion', 'nikolasseb@gmail.com'),
('M0010', 'Farrel', 'Dinata', 'farreldinata@gmail.com');
INSERT INTO Menu(menu id, Name menu, category, price menu)
VALUES
('F0001', 'Double Big Mac', 'ala carte', 50500),
('F0002', 'Egg and Cheese Muffin', 'ala carte', 13000),
('F0003', 'Chicken Muffin', 'ala carte', 20000),
('F0004', 'Sausage Muffin', 'ala carte', 22500),
('F0005', 'Egg Muffin', 'ala carte',22500),
('F0006', 'Triple Burger with Cheese', 'ala carte', 40000),
('F0007', 'Double Cheese Burger', 'ala carte', 33000),
('F0008', 'Beef Burger', 'ala carte', 14500),
('F0009', 'Cheese Burger Deluxe', 'ala carte', 26500),
('F0010', 'Cheese Burger with Egg', 'ala carte', 27000),
```

```
('F0011', 'PaNas 1', 'paket', 27273),
('F0012', 'PaNas 2 + Rice', 'paket', 38182),
('F0013', 'PaNas 2 + Fries', 'paket', 40455),
('F0014', 'PaMer', 'paket', 92727),
('F0015', 'Fish & Fries Combo', 'paket', 34071);
INSERT INTO Application (application ID, server location)
VALUES
('A0001', 'Philippines 161.49.255.130'),
('A0002', 'Indonesia 192.188.175.120'),
('A0003', 'Belgium 109.88.125.125'),
('A0004', 'Japan 103.100.189.199'),
('A0005', 'Japan 101.97.189.199'),
('A0006', 'Singapore 1.32.128.126'),
('A0007', 'Slovakia 109.230.63.245'),
('A0008', 'Slovenia 109.182.255.249'),
('A0009', 'Malaysia 1.9.255.254'),
('A0010', 'Mexico 104.103.32.80');
INSERT
             INTO
                       Supplier(supplier id,
                                                      name supplier,
                                                                         address supplier,
phone number supplier)
VALUES
('SP0001', 'Beef Lopez Foods', '2000 Hall Blvd. Ponca City, OK 74601', '4056037500'),
('SP0002', 'Meat & Fish Keystone Foods', '401 City Avenue, Suite 800 Bala Cynwyd',
'6102580888'),
('SP0003', 'Fish Kenny Longaker', '8220 Calvine Rd, Sacramento', '4257531545'),
('SP0004', 'Potato Frank Martinez', '4725 Farrow Ave, Kansas City', '3167449133'),
('SP0005', 'Potato Jenn Bunger', '2815 ALDER RD, PASCO', '993017826'),
('SP0006', 'Potato 100 Circle Farms', '100 Circles Pr, SW, Prosser, WA', '5098753155'),
('SP0007', 'Apple Mike Dietrich', '12617 Hauser St, Overland Park, Kansas', '9138889294'),
('SP0008', 'Lettuce Dirk Giannini', '415 Espinosa Rd, Salinas, CA', '8314440775'),
('SP0009', 'Coffee Gaviña Gourmet Coffee', '2700 Fruitland Ave, Vernon, CA 90058',
'13235820671'),
('SP0010', 'Dairy Hildebrandt Farms', '349 Main Ave E, West Fargo, ND 58078',
'17012811539');
INSERT INTO Booker (booker id, name booker, email booker, phone number booker)
VALUES ('B0001', 'Alexa Andira', 'alendira@yahoo.co.id', '235698770122'),
         ('B0002', 'Fayaza Zasa', 'fazasa@gmail.com', '981200982245'),
         ('B0003', 'Jason Mandel', 'jas124@yahoo.co.id', '887233456781'),
         ('B0004', 'Xavier Hendri', 'vier78@ymail.com', '345589098224'),
         ('B0005', 'Jasper Viens', 'jasperv@gmail.co.id', '776345871239'),
         ('B0006', 'Vanila Chikuita', 'vchiku23@yahoo.co.id', '878890654387'),
         ('B0007', 'Queena', 'queen@gmail.com', '122189076453'),
```

```
('B0008', 'Zoro Sudandi', 'zoros@ymail.co.id', '567544578972'),
```

('B0009', 'Valentina', 'vals@yahoo.com', '223989076548'),

('B0010', 'Rivano Farais', 'rivarais@ymail.co.id', '012987886544'),

('B0011', 'Aline Zumary', 'zumary@yahoo.com', '887623459012'),

('B0012', 'Trisha Maleno', 'trileno@gmail.com', '889012567332'),

('B0013', 'Jughead Blossom', 'jugheadb@gmail.com', '223145644323'),

('B0014', 'Savely Swarov', 'savely 78@ymail.co.id', '872345229912'),

('B0015', 'Jurgen Zarev', 'jurgenz@gmail.co.id', '980088745675');

INSERT INTO StoreMcD(store\_ID, name\_owner, location, first\_open, service, opening\_hours, closing\_hours, max\_capacity, o\_id)

VALUES ('S0001', 'Nayasha Clarisa', 'Serpong Jaya', '2015/07/23', 'Dine In, Take Away, Drive Thru', '07:00:00', '22:00:00', '60', '00003'),

('S0002', 'Nataniel Edbert', 'Summarecon Serpong', '2019/08/11', 'Dine In, Delivery, Drive Thru', '07:00:00', '23:00:00', '70', 'O0007'),

('S0003', 'Bryant Richie', 'Summarecon Bekasi', '2011/01/09', 'Dine In, Take Away, Delivery', '08:00:00', '23:00:00', '75', 'O0010'),

('S0004', 'Asmodeus White', 'Daan Mogot', '2014/06/28', 'Dine In, Take Away', '06:00:00', '23:00:00', '55', 'O0005'),

('S0005', 'Castin Hong', 'Citra Garden', '2018/11/18', 'Dine In, Drive Thru, Delivery', '08:00:00', '22:00:00', '110', '00009'),

('S0006', 'Albertus Alvin', 'Sunburst', '2016/12/07', 'Dine In, Drive Thru, Delivery', '06:00:00', '22:00:00', '40', 'O0006'),

('S0007', 'Gregory Kurniawan', 'Puri Indah', '2019/03/19', 'Dine In, Take Away, Drive Thru', '08:00:00', '22:00:00', '50', 'O0001'),

('S0008', 'Aurelius Ivan', 'Ciater', '2013/05/10', 'Dine In, Take Away', '07:00:00', '23:00:00', '65', 'O0004'),

('S0009', 'Maecyntha Irelynn', 'Sunter', '2019/09/13', 'Dine In, Take Away, Delivery', '08:00:00', '23:00:00', '40', 'O0002'),

('S0010', 'Vanessa Febry', 'Kemang', '2014/01/27', 'Dine In, Take Away, Drive Thru', '07:00:00', '23:00:00', '80', 'O0008');

INSERT INTO UserApp(userApp\_id, first\_name\_user, last\_name\_user, address\_user, phone\_number\_user, email\_user, password, app\_id)

VALUES ('U0001', 'Zakiya', 'Farina', 'Jl Gn Sahari Raya 4 Ged Balai Pustaka', '998221348774', 'zakif@gmail.com', 'hungryzaki', 'A0002'),

('U0002', 'Aline', 'Zumary', 'Jl Percetakan Negara VI/39', '887623459012', 'zumary@yahoo.co.id', 'cravingaline12', 'A0002'),

('U0003', 'Jurgen', 'Zarev', 'Jl Letjen South Parman Mal Taman Anggrek 187', '980088745675', 'jurgenz@gmail.co.id', 'jurgenfoody88', 'A0002'),

('U0004', 'Savely', 'Swarov', 'Psr Tanah Abang Bl B Los E/23', '872345229912', 'savely78@ymail.co.id', 'savelystomach', 'A0002'),

('U0005', 'Trisha', 'Maleno', 'Jl Raya Driyorejo 22/9', '889012567332', 'trileno@gmail.com', '3shafeelfull', 'A0002'),

('U0006', 'Hardin', 'Scott', 'JI Ketintang Baru XII/2 A', '763456774431', 'harscott@yahoo.co.id', 'hardinwantsburger', 'A0002'),

('U0007', 'Veronica', 'Lodge', 'Jl Peta Slt A/12 RT 011/001 Kalideres', '66758439012', 'verolod@ymail.com', 'veronicaherself87', 'A0002'),

('U0008', 'Jughead', 'Blossom', 'Jl Jend Basuki Rachmad 122', '223145644323', 'jugheadb@gmail.com', 'jugheadjones22', 'A0002'),

('U0009', 'Isobel', 'Stevens', 'Jl Wates Km 3 Gg Nitipuran 242', '832257640091', 'izzistev@yahoo.co.id', 'doctorizzie34', 'A0002'),

('U0010', 'Meredith', 'Shepherd', 'Jl Empang Bahagia 56 A', '334021865478', 'shepherds@gmail.com', 'derekshepehrd45', 'A0002');

INSERT INTO Family\_Member(name\_fam, gender\_fam, birth\_date\_fam, relation\_fam, mngr id)

VALUES ('Shaqueela', 'Female', '1995/09/19', 'Sister', 'M0009'),

('Rainy Xarexa', 'Female', '1999/01/07', 'Wife', 'M0002'),

('Tunisa Kalila', 'Female', '2001/03/09', 'Daughter', 'M0004'),

('Jared James', 'Male', '1987/11/23', 'Cousin', 'M0001'),

('Spiresa Latunia', 'Female', '1990/05/19', 'Sister', 'M0003'),

('Farenza Noren', 'Female', '1965/08/21', 'Mother', 'M0007'),

('Loui Vito', 'Male', '1970/09/02', 'Father', 'M0005'),

('Bardi Smarty', 'Male', '2003/10/18', 'Son', 'M0010'),

('Charies', 'Male', '1975/03/29', 'Husband', 'M0006'),

('Owen Hunt', 'Female', '1969/04/03', 'Son', 'M0008');

INSERT INTO Employee (employee\_id, first\_name\_emp, last\_name\_emp, position, email\_emp, address\_emp, salary, gender\_emp, birth\_date\_emp, join\_date\_emp, str\_id, mngr id)

**VALUES** 

('E0001', 'Kamron', 'Mayor', 'Cashier', 'kamron.mayor@noreply.com', 'Jl. Danau Sunter Utara Blok B No.27', 1600000, 'Male', '1997/09/18', '2021/08/25', 'S0009', 'M0003'),

('E0002', 'Talitha', 'Underwood', 'Crew Member', 'underwood.gmail@noreply.com', 'Jl Raya Sultan Agung Km 27 Pondok Ungu', 1800000, 'Female', '1992/10/27', '2020/07/13', 'S0006', 'M0001'),

('E0003', 'Arya', 'Crosby', 'Staff', 'cros.by@gmail.com', 'Jl Surya Laya 3', 1700000, 'Male', '1994/10/10', '2020/09/20', 'S0003', 'M0005'),

('E0004', 'Eman', 'Watt', 'Cashier', 'eman.watt@yahoo.com', 'Jl Bungur Besar Raya 139 B', 1600000, 'Female', '1995/08/29', '2021/03/06', 'S0008', 'M0007'),

('E0005', 'Sally', 'Booker', 'Intern', 'sally.booker@noreply.com', 'Jl. Kelapa Dua Blok AD/28', 1500000, 'Female', '1998/02/15', '2022/01/25', 'S0002', 'M0004'),

('E0006', 'Mattie', 'Gilmour', 'Cashier', 'matt.gilmour@ymail.com', 'Jl. Daan Mogot KM I no. 45', 1500000, 'Male', '2003/01/19', '2021/08/10', 'S0004', 'M0002'),

```
('E0007', 'Rhianna', 'Joyce', 'Staff', 'joyce@noreply.com', 'Jl Sultan Hasanuddin Kav 47 Victoria', 1600000, 'Female', '2002/06/22', '2022/02/09', 'S0007', 'M0010'),
```

('E0008', 'Dane', 'Mayer', 'Intern', 'dane.mayor@ymail.com', 'Jl Raya Perancis Bl B-5/6', 1500000, 'Male', '1997/01/27', '2020/02/22', 'S0005', 'M0006'),

('E0009', 'Arnold', 'Calderon', 'Crew Member', 'arnold.arnold@yahoo.com', 'Jl Boulevard Raya Bl TA-2/14', 1800000, 'Male', '1999/08/27', '2021/04/12', 'S0001', 'M0008'),

('E0010', 'Maxime', 'Leach', 'Cashier', 'maxime@gmail.com', 'Jl Kalibaru Brt IV 52 RT 003/012', 1800000, 'Male', '1991/03/08', '2019/09/07', 'S0010', 'M0009'),

('E0011', 'Gregory', 'Harrington', 'Staff', 'gregory.harr@noreply.com', 'Jl Kp Melayu Kecil II 21', 1600000, 'Male', '2002/08/30', '2021/03/04', 'S0004', 'M0002'),

('E0012', 'Stewart', 'Hamilton', 'Cashier', 'stew.art@yahoo.com', 'JI Terusan Arjuna Slt 150', 1600000, 'Male', '1994/01/15', '2021/02/24', 'S0003', 'M0005'),

('E0013', 'Nella', 'Townsend', 'Crew Member', 'its.nella@noreply.com', 'Jl Raya Semarang Demak Km 5,6 Bl AA/65', 2000000, 'Female', '1993/07/22', '2019/06/22', 'S0003', 'M0005'),

('E0014', 'Abdullah', 'Azwar', 'Cashier', 'abdulazwar@noreply.com', 'Komplek Dosen IKIP Bl II, Dki Jakarta', 3000000, 'Male', '1993/04/15', '2019/06/22', 'S0003', 'M0005'),

('E0015', 'Jose', 'Virgiano', 'Manager', 'josevirgiano1@gmail.com', 'Jl. Daan Mogot KM I no. 45', 4000000, 'Male', '2003/01/19', '2021/08/10', 'S0001', NULL),

('E0016', 'Renfred', 'Leeman', 'Manager', 'renfredleeman7@gmail.com','Jl Sultan Jayabaya Kav 44 Gagaes', 400000, 'Female', '2002/06/22', '2022/02/09', 'S0002', NULL),

('E0017', 'Giranda', 'Anugrah', 'Manager', 'girandaanugrah01@gmail.com', 'Jl Raya Maroko Bl B-5/4', 5000000, 'Female', '1997/01/27', '2020/02/22', 'S0003', NULL),

('E0018', 'Valerie', 'Kurniawan', 'Manager', 'valeriekurniawan06@gmail.com', 'Jl Indonesia Raya Bl TA-2/14', 4000000, 'Female', '1999/08/27', '2021/04/12', 'S0004', NULL),

('E0019', 'Joshua', 'Hotama', 'Manager', 'joshuahotama@gmail.com','Jl Kalilama Brt IV 52 RT 003/012', 1800000, 'Male', '1991/03/08', '2019/09/07', 'S0005', NULL),

('E0020', 'Vanessa', 'Kayleen', 'Manager', 'vanessakayleen12@gmail.com', 'Jl Kp Melayu Besar II 21', 1600000, 'Female', '2002/08/30', '2021/03/04', 'S0006', NULL),

('E0021', 'Reinhard', 'Anwari', 'Manager', 'reinhard2@gmail.com', 'Jl Sultan Makasih Slt 150', 1600000, 'Male', '1994/01/15', '2021/02/24', 'S0007', NULL),

('E0022', 'Nikodemus', 'Marcelino', 'Manager', 'nikomar@gmail.com', 'Jl Raya Kalibata Km 5,6 Bl AA/65', 6000000, 'Male', '1993/07/22', '2019/06/22', 'S0008', NULL),

('E0023', 'Nicholas', 'Sebastion', 'Manager', 'nikolasseb@gmail.com', 'Jl Sukajadi RT 004/005 Bl 003, Dki Jakarta', 3000000, 'Male', '1993/04/15', '2019/06/22', 'S0009', NULL),

('E0025', 'Farrel', 'Dinata', 'Manager', 'farreldinata@gmail.com', 'Jl Suramadu RT 004/002 Bl II, Dki Jakarta', 3000000, 'Male', '1993/04/15', '2019/06/22', 'S0010', NULL);

INSERT INTO Ingredient(ingredient\_id, quantity, name\_ingredient, delivery\_date, m\_id, sup\_id)

**VALUES** 

('I0001', '30 kg', 'Ground Beef', '2022/09/05', 'F0008', 'SP0001'),

('I0002', '30 kg', 'Ground Beef', '2022/09/05', 'F0001', 'SP0001'),

('I0003', '40 kg', 'Chicken Meat', '2022/09/07', 'F0003', 'SP0002'),

('I0004', '40 kg', 'Chicken Meat', '2022/09/07', 'F0011', 'SP0002'),

```
('I0005', '40 kg', 'Chicken Meat', '2022/09/07', 'F0012', 'SP0002'),
('I0006', '40 kg', 'Chicken Meat', '2022/09/07', 'F0013', 'SP0002'),
('I0007', '40 kg', 'Chicken Meat', '2022/09/07', 'F0014', 'SP0002'),
('I0008', '60 kg', 'Swiss Cheese', '2022/08/28', 'F0001', 'SP0010'),
('I0009', '60 kg', 'Swiss Cheese', '2022/08/28', 'F0002', 'SP0010'),
('I0010', '60 kg', 'Swiss Cheese', '2022/08/28', 'F0006', 'SP0010'),
('I0011', '60 kg', 'Swiss Cheese', '2022/08/28', 'F0008', 'SP0010'),
('I0012', '60 kg', 'Swiss Cheese', '2022/08/28', 'F0009', 'SP0010'),
('I0013', '60 kg', 'Swiss Cheese', '2022/08/28', 'F0010', 'SP0010'),
('I0014', '45 kg', 'Blue Cheese', '2022/08/20', 'F0007', 'SP0010'),
('I0015', '20 kg', 'Lettuce', '2022/10/10', 'F0001', 'SP0008'),
('I0016', '20 kg', 'Lettuce', '2022/10/10', 'F0006', 'SP0008'),
('I0017', '20 kg', 'Lettuce', '2022/10/10', 'F0007', 'SP0008'),
('I0018', '20 kg', 'Lettuce', '2022/10/10', 'F0008', 'SP0008'),
('I0019', '20 kg', 'Lettuce', '2022/10/10', 'F0009', 'SP0008'),
('I0020', '20 kg', 'Lettuce', '2022/10/10', 'F0010', 'SP0008'),
('I0021', '35 l', 'Dairy Milk', '2022/10/10', 'F0005', 'SP0010'),
('I0022', '50 kg', 'Fish Meat', '2022/10/04', 'F0015', 'SP0003'),
('I0023', '30 kg', 'Clearwater Potato', '2022/10/08', 'F0015', 'SP0006'),
('I0024', '30 kg', 'Beef Chuck', '2022/09/05', 'F0007', 'SP0001'),
('I0025', '30 kg', 'Beef Chuck', '2022/09/05', 'F0008', 'SP0001'),
('I0026', '30 kg', 'Beef Chuck', '2022/09/05', 'F0009', 'SP0001'),
('I0027', '30 kg', 'Beef Chuck', '2022/09/05', 'F0010', 'SP0001'),
('I0028', '25 kg', 'Blazer Potato', '2022/10/06', 'F0015', 'SP0004'),
('I0029', '10 kg', 'Cucumber', '2022/09/03', 'F0001', 'SP0008'),
('I0030', '10 kg', 'Cucumber', '2022/09/03', 'F0006', 'SP0008'),
('I0031', '10 kg', 'Cucumber', '2022/09/03', 'F0008', 'SP0008'),
('I0032', '10 kg', 'Cucumber', '2022/09/03', 'F0009', 'SP0008'),
('I0033', '10 kg', 'Cucumber', '2022/09/03', 'F0010', 'SP0008'),
('I0034', '10 kg', 'Tomato', '2022/09/03', 'F0001', 'SP0008'),
('I0035', '10 kg', 'Tomato', '2022/09/03', 'F0006', 'SP0008'),
('I0036', '10 kg', 'Tomato', '2022/09/03', 'F0008', 'SP0008'),
('I0037', '10 kg', 'Tomato', '2022/09/03', 'F0009', 'SP0008'),
('I0038', '10 kg', 'Tomato', '2022/09/03', 'F0010', 'SP0008'),
('I0039', '10 kg', 'Mayonnaise', '2022/09/03', 'F0001', 'SP0008'),
('I0040', '10 kg', 'Mayonnaise', '2022/09/03', 'F0006', 'SP0008'),
('I0041', '10 kg', 'Mayonnaise', '2022/09/03', 'F0008', 'SP0008'),
('I0042', '10 kg', 'Mayonnaise', '2022/09/03', 'F0009', 'SP0008'),
('I0043', '10 kg', 'Mayonnaise', '2022/09/03', 'F0010', 'SP0008'),
('I0044', '10 kg', 'Egg', '2022/09/03', 'F0010', 'SP0008'),
('I0045', '10 kg', 'Egg', '2022/09/03', 'F0005', 'SP0008'),
('I0046', '10 kg', 'Egg', '2022/09/03', 'F0002', 'SP0008'),
('I0047', '5 kg', 'Sausage', '2022/09/03', 'F0004', 'SP0008'),
('I0048', '50 kg', 'Rice', '2022/09/03', 'F0011', 'SP0008'),
```

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('I0049', '50 kg', 'Rice', '2022/09/03', 'F0012', 'SP0008'),
('I0050', '50 kg', 'Rice', '2022/09/03', 'F0013', 'SP0008'),
('I0051', '50 kg', 'Rice', '2022/09/03', 'F0014', 'SP0008'),
('I0052', '50 kg', 'Bun', '2022/09/03', 'F0001', 'SP0008'),
('I0053', '50 kg', 'Bun', '2022/09/03', 'F0006', 'SP0008'),
('I0054', '50 kg', 'Bun', '2022/09/03', 'F0007', 'SP0008'),
('I0055', '50 kg', 'Bun', '2022/09/03', 'F0008', 'SP0008'),
('I0056', '50 kg', 'Bun', '2022/09/03', 'F0009', 'SP0008'),
('I0057', '50 kg', 'Bun', '2022/09/03', 'F0010', 'SP0008'),
('I0058', '5 kg', 'Sausage', '2022/09/03', 'F0004', 'SP0008'),
('I0059', '5 kg', 'Muffin Dough', '2022/09/03', 'F0002', 'SP0008'),
('I0060', '5 kg', 'Muffin Dough', '2022/09/03', 'F0003', 'SP0008'),
('I0061', '5 kg', 'Muffin Dough', '2022/09/03', 'F0004', 'SP0008'),
('I0062', '5 kg', 'Muffin Dough', '2022/09/03', 'F0005', 'SP0008');
INSERT INTO Sell (str id, m id)
VALUES
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('S0001', 'F0006'),
('S0001', 'F0008'),
('S0002', 'F0007'),
('S0002', 'F0009'),
('S0003', 'F0009'),
('S0003', 'F0010'),
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('S0004', 'F0002'),
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('S0005', 'F0003'),
('S0005', 'F0004'),
('S0006', 'F0015'),
('S0007', 'F0011'),
('S0007', 'F0014'),
('S0008', 'F0012'),
('S0008', 'F0013'),
('S0009', 'F0015'),
('S0009', 'F0001'),
('S0009', 'F0007'),
('S0010', 'F0002'),
('S0010', 'F0006'),
('S0010', 'F0006'),
('S0010', 'F0009'),
('S0010', 'F0010');
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INSERT INTO Booking (book\_id, user\_id, str\_id, e\_id, app\_id, price\_book, event\_book, date\_book, time\_book)

# **VALUES**

('B0001', NULL, 'S0003', 'E0013', NULL, 216000, 'Birthday Party', '2019/12/12', '17:00:00'),

('B0001', NULL, 'S0006', 'E0002', NULL, 202500, 'Birthday Party', '2021/09/10', '16:00:00'),

('B0002', NULL, 'S0007', 'E0007', NULL, 108000, 'Kindergarten Graduation Party', '2020/11/21', '12:00:00'),

('B0003', NULL, 'S0004', 'E0011', NULL, 227000, 'Mini Elementary Grad Party', '2021/06/16', '14:00:00'),

('B0006', NULL, 'S0004', 'E0006', NULL, 204000, 'Birthday Party', '2022/02/22', '17:30:00'),

('B0007', NULL, 'S0005', 'E0008', NULL, 210000, 'Mini Elementary Grad Party', '2020/06/01', '16:00:00'),

('B0010', NULL, 'S0007', 'E0007', NULL, 108000, 'Birthday Party', '2022/08/14', '13:00:00'),

('B0012', 'U0005', 'S0002', 'E0005', 'A0002', 158000, 'Birthday Party', '2022/07/18', '15:00:00'),

('B0013', 'U0008', 'S0009', 'E0001', 'A0002', 270000, 'Birthday Party', '2020/07/23', '16:00:00'),

('B0015', 'U0003', 'S0010', 'E0010', 'A0002', 108000, 'Kindergarten Graduation Party', '2020/05/21', '12:00:00');

INSERT INTO Transaction (user\_id, m\_id, str\_id, e\_id, app\_id, address, transaction\_number, transaction\_date, m\_qty)

# **VALUES**

('U0001','F0001','S0002','E0010','A0002','Jl Ngagel Jaya 12-14, Jawa Timur, Surabaya, 60283','T0001','2022-03-01',2),

('U0001','F0002','S0002','E0010','A0002','Jl Ngagel Jaya 12-14, Jawa Timur, Surabaya, 60283','T0001','2022-03-01',1),

('U0001','F0003','S0002','E0010','A0002','Jl Ngagel Jaya 12-14, Jawa Timur, Surabaya, 60283','T0001','2022-03-01',1),

('U0001','F0004','S0002','E0010','A0002','Jl Ngagel Jaya 12-14, Jawa Timur, Surabaya, 60283','T0001','2022-03-01',1),

('U0002','F0001','S0001','E0001','A0002','Kebayoran Baru Mall Kav 16-18 Gn Jakarta Slt, Dki Jakarta, Jakarta, 12120','T0002','2022-03-01',3),

('U0002','F0002','S0001','E0001','A0002','Kebayoran Baru Mall Kav 16-18 Gn Jakarta Slt, Dki Jakarta, Jakarta, 12120','T0002','2022-03-01',1),

('U0002','F0003','S0001','E0001','A0002','Kebayoran Baru Mall Kav 16-18 Gn Jakarta Slt, Dki Jakarta, Jakarta, 12120','T0002','2022-03-01',1),

 $\label{lem:condition} $$ ('U0003','F0002','S0003','E0001','A0002','Komplek Buana Gardenia Bl F I/20,Pinang, Jakarta','T0003','2022-03-02',1), $$$ 

('U0003','F0003','S0003','E0001','A0002','Komplek Buana Gardenia Bl F I/20,Pinang, Jakarta','T0003','2022-03-02',3),

- ('U0003','F0005','S0003','E0001','A0002','Komplek Buana Gardenia Bl F I/20,Pinang, Jakarta','T0003','2022-03-02',1),
- ('U0004','F0002','S0004','E0003','A0002','Jl Hang Tuah IX/35, Dki Jakarta, Jakarta, 12120','T0004','2022-03-02',2),
- ('U0004','F0003','S0004','E0003','A0002','Jl Hang Tuah IX/35, Dki Jakarta, Jakarta, 12120','T0004','2022-03-02',1),
- ('U0004','F0004','S0004','E0003','A0002','Jl Hang Tuah IX/35, Dki Jakarta, Jakarta, 12120','T0004','2022-03-02',2),
- ('U0005','F0001','S0007','E0004','A0002','Jl Walang Permai II 21 RT 002/07, Dki Jakarta, Jakarta ','T0005','2022-03-03',2),
- ('U0005','F0004','S0007','E0004','A0002','Jl Walang Permai II 21 RT 002/07, Dki Jakarta, Jakarta ','T0005','2022-03-03',1),
- ('U0005','F0005','S0007','E0004','A0002','Jl Walang Permai II 21 RT 002/07, Dki Jakarta, Jakarta ','T0005','2022-03-03',2),
- ('U0006','F0001','S0008','E0004','A0002','Jl Panaitan,Tanjung priok Tanjung Priok, Jakarta 17022','T0006','2022-03-03',1),
- ('U0006','F0002','S0008','E0004','A0002','Jl Panaitan,Tanjung priok Tanjung Priok, Jakarta 17022','T0006','2022-03-03',1),
- ('U0006','F0003','S0008','E0004','A0002','Jl Panaitan,Tanjung priok Tanjung Priok, Jakarta 17022','T0006','2022-03-03',1),
- ('U0006','F0004','S0008','E0004','A0002','Jl Panaitan,Tanjung priok Tanjung Priok, Jakarta 17022','T0006','2022-03-03',1),
- ('U0006','F0005','S0008','E0004','A0002','Jl Panaitan,Tanjung priok Tanjung Priok, Jakarta 17022','T0006','2022-03-03',1),
- ('U0007','F0001','S0001','E0005','A0002','Jl Cikini Raya 60-FGMN Arva Cikini Bldg Lt 4,Cikini, Menteng, Jakarta, IL 60156','T0007','2022-03-04',3),
- ('U0007','F0002','S0001','E0005','A0002','Jl Cikini Raya 60-FGMN Arva Cikini Bldg Lt 4,Cikini, Menteng, Jakarta, IL 60156','T0007','2022-03-04',1),
- ('U0007','F0005','S0001','E0005','A0002','Jl Cikini Raya 60-FGMN Arva Cikini Bldg Lt 4,Cikini, Menteng, Jakarta, IL 60156','T0007','2022-03-04',1),
- ('U0008','F0001','S0002','E0010','A0002','Kebayoran Baru Mall Kav 16-18 Gn Jakarta Slt, Dki Jakarta, Jakarta, 12120','T0008','2022-03-05',3),
- ('U0008','F0002','S0002','E0010','A0002','Kebayoran Baru Mall Kav 16-18 Gn Jakarta Slt, Dki Jakarta, Jakarta, 12120','T0008','2022-03-05',2),
- ('U0008','F0003','S0002','E0010','A0002','Kebayoran Baru Mall Kav 16-18 Gn Jakarta Slt, Dki Jakarta, Jakarta, 12120','T0008','2022-03-05',3),
- ('U0008','F0004','S0002','E0010','A0002','Kebayoran Baru Mall Kav 16-18 Gn Jakarta Slt, Dki Jakarta, Jakarta, 12120','T0008','2022-03-05',5),
- ('U0008','F0005','S0002','E0010','A0002','Kebayoran Baru Mall Kav 16-18 Gn Jakarta Slt, Dki Jakarta, Jakarta, 12120','T0008','2022-03-05',2),
- ('U0009','F0003','S0003','E0012','A0002','Kebayoran Lama Mall, Dki Jakarta, Jakarta, 23421','T0009','2022-03-07',4),
- ('U0009','F0004','S0003','E0012','A0002','Kebayoran Lama Mall, Dki Jakarta, Jakarta, 23421','T0009','2022-03-07',5),

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('U0009','F0005','S0003','E0012','A0002','Kebayoran Lama Mall, Dki Jakarta, Jakarta, 23421','T0009','2022-03-07',6),
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('U0009','F0006','S0003','E0012','A0002','Kebayoran Lama Mall, Dki Jakarta, Jakarta, 23421','T0009','2022-03-07',3),

('U0009','F0007','S0003','E0012','A0002','Kebayoran Lama Mall, Dki Jakarta, Jakarta, 23421','T0009','2022-03-07',3),

(NULL,'F0001','S0002','E0010','A0002', NULL,'T0010','2022-03-10',3),

(NULL, 'F0002', 'S0002', 'E0010', 'A0002', NULL, 'T0010', '2022-03-10', 2),

(NULL, 'F0003', 'S0002', 'E0010', 'A0002', NULL, 'T0010', '2022-03-10', 3),

(NULL,'F0004','S0002','E0010','A0002', NULL,'T0010','2022-03-10',5),

(NULL, 'F0005', 'S0002', 'E0010', 'A0002', NULL, 'T0010', '2022-03-10', 2),

(NULL,'F0001','S0002','E0010','A0002', NULL,'T0011','2022-03-11',3),

(NULL, 'F0002', 'S0002', 'E0010', 'A0002', NULL, 'T0011', '2022-03-11', 2),

(NULL,'F0003','S0002','E0010','A0002', NULL,'T0011','2022-03-11',3),

(NULL, 'F0010', 'S0002', 'E0010', 'A0002', NULL, 'T0011', '2022-03-11', 5),

(NULL,'F0011','S0002','E0010','A0002', NULL,'T0011','2022-03-11',2),

('U0002','F0011','S0002','E0010','A0002','Cicangkal, Dki Jakarta, Jakarta, 23423','T0012','2022-03-13',3),

('U0002','F0012','S0002','E0010','A0002','Cicangkal, Dki Jakarta, Jakarta, 23423','T0012','2022-03-13',2),

('U0002','F0013','S0002','E0010','A0002','Cicangkal, Dki Jakarta, Jakarta, 23423','T0012','2022-03-13',3),

('U0002','F0014','S0002','E0010','A0002','Cicangkal, Dki Jakarta, Jakarta, 23423','T0012','2022-03-13',5),

('U0002','F0001','S0002','E0010','A0002','Cicangkal, Dki Jakarta, Jakarta, 23423','T0012','2022-03-13',2),

('U0003','F0001','S0002','E0010','A0002','Jakarta Slt, Dki Jakarta, Jakarta, 27891','T0013','2022-03-17',3),

('U0003','F0002','S0002','E0010','A0002','Jakarta Slt, Dki Jakarta, Jakarta, 27891','T0013','2022-03-17',2),

('U0003','F0003','S0002','E0010','A0002','Jakarta Slt, Dki Jakarta, Jakarta, 27891','T0013','2022-03-17',3),

('U0003','F0004','S0002','E0010','A0002','Jakarta Slt, Dki Jakarta, Jakarta, 27891','T0013','2022-03-17',5),

('U0003','F0005','S0002','E0010','A0002','Jakarta Slt, Dki Jakarta, Jakarta, 27891','T0013','2022-03-17',2),

('U0004','F0002','S0002','E0010','A0002','Jakarta Barat, Sukajadi, Dki Jakarta, Jakarta, 12313','T0014','2022-03-18',3),

('U0004','F0004','S0002','E0010','A0002','Jakarta Barat, Sukajadi, Dki Jakarta, Jakarta, 12313','T0014','2022-03-18',2),

('U0004','F0006','S0002','E0010','A0002','Jakarta Barat, Sukajadi, Dki Jakarta, Jakarta, 12313','T0014','2022-03-18',3),

('U0004','F0008','S0002','E0010','A0002','Jakarta Barat, Sukajadi, Dki Jakarta, Jakarta, 12313','T0014','2022-03-18',5),

- ('U0004','F0010','S0002','E0010','A0002','Jakarta Barat, Sukajadi, Dki Jakarta, Jakarta, 12313','T0014','2022-03-18',2),
- ('U0005','F0001','S0002','E0010','A0002','Pondok Indah Baru Jakarta Pusat, Dki Jakarta, Jakarta, 234234','T0015','2022-03-19',1),
- ('U0005','F0002','S0002','E0010','A0002','Pondok Indah Baru Jakarta Pusat, Dki Jakarta, Jakarta, 234234','T0015','2022-03-19',7),
- ('U0005','F0003','S0002','E0010','A0002','Pondok Indah Baru Jakarta Pusat, Dki Jakarta, Jakarta, 234234','T0015','2022-03-19',1),
- ('U0005','F0005','S0002','E0010','A0002','Pondok Indah Baru Jakarta Pusat, Dki Jakarta, Jakarta, 234234','T0015','2022-03-19',1),
- ('U0005','F0007','S0002','E0010','A0002','Pondok Indah Baru Jakarta Pusat, Dki Jakarta, Jakarta, 234234','T0015','2022-03-19',2),
- ('U0005','F0009','S0002','E0010','A0002','Pondok Indah Baru Jakarta Pusat, Dki Jakarta, Jakarta, 234234','T0015','2022-03-19',1),
- ('U0005','F0011','S0002','E0010','A0002','Pondok Indah Baru Jakarta Pusat, Dki Jakarta, Jakarta, 234234','T0015','2022-03-19',3),
- ('U0006','F0002','S0002','E0004','A0002','Jl Dewi Sartika 2 Ruko Dewi Sartika RT 004/14','T0016','2022-03-09', 2),
- ('U0006','F0001','S0002','E0004','A0002','Jl Dewi Sartika 2 Ruko Dewi Sartika RT 004/14','T0016','2022-03-09', 3),
- ('U0006','F0004','S0002','E0004','A0002','Jl Dewi Sartika 2 Ruko Dewi Sartika RT 004/14','T0016','2022-03-09', 1),
- ('U0009','F0003','S0001','E0004','A0002','Jl Sindoro 3, Dki Jakarta, Dki Jakarta, Jakarta','T0017','2022-03-11', 2),
- ('U0009','F0004','S0001','E0004','A0002','Jl Sindoro 3, Dki Jakarta, Dki Jakarta, Jakarta','T0017','2022-03-11', 1),
- ('U0009','F0005','S0001','E0004','A0002','Jl Sindoro 3, Dki Jakarta, Dki Jakarta, Jakarta','T0017','2022-03-11', 1),
- ('U0009','F0001','S0001','E0004','A0002','Jl Sindoro 3, Dki Jakarta, Dki Jakarta, Jakarta','T0017','2022-03-11', 1),
- ('U0010','F0004','S0003','E0005','A0002','Ruko Peterongan Plaza 15, Semarang','T0018','2022-03-11', 1),
- ('U0010','F0002','S0003','E0005','A0002','Ruko Peterongan Plaza 15, Semarang','T0018','2022-03-11', 2),
- ('U0010','F0001','S0003','E0005','A0002','Ruko Peterongan Plaza 15, Semarang','T0018','2022-03-11', 2),
- ('U0010','F0003','S0003','E0005','A0002','Ruko Peterongan Plaza 15, Semarang','T0018','2022-03-11', 1),
- ('U0001','F0005','S0004','E0006','A0002','Jl Letjen S Parman 207-A Jati, Medan Maimun, Sumatera Utara','T0019','2022-03-11', 2),
- ('U0001','F0003','S0004','E0006','A0002','Jl Letjen S Parman 207-A Jati, Medan Maimun, Sumatera Utara','T0019','2022-03-11', 1),
- ('U0001','F0002','S0004','E0006','A0002','Jl Letjen S Parman 207-A Jati, Medan Maimun, Sumatera Utara','T0019','2022-03-11', 3),

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('U0002','F0002','S0006','E0007','A0002','Jl Kayoon 56, Jawa Timur','T0020','2022-03-12', 2),
('U0002','F0003','S0006','E0007','A0002','Jl Kayoon 56, Jawa Timur','T0020','2022-03-12', 1),
('U0002','F0010','S0006','E0007','A0002','Jl Kayoon 56, Jawa Timur','T0020','2022-03-12', 1),
(NULL, 'F0001', 'S0001', 'E0008', NULL, NULL, 'T0021', '2022-03-13', 1),
(NULL, 'F0011', 'S0001', 'E0008', NULL, NULL, 'T0021', '2022-03-13', 1),
(NULL, 'F0014', 'S0001', 'E0008', NULL, NULL, 'T0021', '2022-03-13', 1),
(NULL,'F0002','S0003','E0009', NULL, NULL,'T0022','2022-03-13', 2),
(NULL, 'F0008', 'S0003', 'E0009', NULL, NULL, 'T0022', '2022-03-13', 3),
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(NULL, 'F0003', 'S0002', 'E0010', NULL, NULL, 'T0023', '2022-03-14', 1),
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(NULL, 'F0001', 'S0007', 'E0001', NULL, NULL, 'T0024', '2022-03-15', 1),
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(NULL, 'F0004', 'S0007', 'E0001', NULL, NULL, 'T0024', '2022-03-15', 3),
(NULL, 'F0001', 'S0008', 'E0002', NULL, NULL, 'T0025', '2022-03-16', 1),
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(NULL, 'F0001', 'S0003', 'E0004', NULL, NULL, 'T0027', '2022-03-18', 3),
(NULL, 'F0002', 'S0005', 'E0005', NULL, NULL, 'T0028', '2022-03-19', 1),
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(NULL, 'F0001', 'S0003', 'E0006', NULL, NULL, 'T0029', '2022-03-20', 1),
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(NULL, 'F0005', 'S0003', 'E0006', NULL, NULL, 'T0029', '2022-03-20', 1),
(NULL, 'F0003', 'S0003', 'E0006', NULL, NULL, 'T0029', '2022-03-20', 1),
(NULL, 'F0001', 'S0010', 'E0007', NULL, NULL, 'T0030', '2022-03-20', 2),
(NULL, 'F0003', 'S0010', 'E0007', NULL, NULL, 'T0030', '2022-03-20', 3);
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```
('082623123738','O0007'),
        ('081623123732','O0008'),
        ('083623723235','O0009'),
        ('081623423235','O0010');
INSERT INTO Employee Phone Number (phone number emp, e id)
VALUES ('08123423334', 'E0001'),
      ('081113123382','E0002'),
      ('082713227341','E0003'),
      ('081182428373','E0004'),
      ('082273429382','E0005'),
      ('081364423591','E0006'),
      ('082293428343','E0007'),
      ('081383427352','E0008'),
      ('081473426361','E0009'),
      ('082563424373','E0010'),
      ('082455423733','E0011'),
      ('081547422315','E0012'),
      ('081639425347','E0013');
INSERT INTO Manager Phone Number (phone number manager, mngr id)
VALUES ('081233423334','M0001'),
      ('081643423382','M0002'),
      ('082713423341','M0003'),
      ('081182423373','M0004'),
      ('082273423382','M0005'),
      ('081364423591','M0006'),
      ('082293423343','M0007'),
      ('081383423352','M0008'),
      ('081473423361','M0009');
```

# 1. SELECT Statement (10 points; Sub-CPMK 7)

Buatlah 5 query dengan ketentuan sebagai berikut.

- a. Jelaskan fungsi dari setiap query yang dibuat.
- b. Sertakan **screenshot eksekusi setiap query** yang dibuat (query yang dieksekusi dan hasil dari query tersebut).
- Setiap query yang dibuat harus menggunakan implicit / explicit JOIN (inner JOIN / outer JOIN / self JOIN) dan dapat dikombinasikan dengan satu atau lebih dari beberapa komponen berikut.
  - i. CASE expression
  - ii. WHERE yang memiliki minimal 3 kondisi
  - iii. Aggregation function
  - iv. GROUP BY clause [dan HAVING clause]
  - v. LIMIT [ dan OFFSET ]
  - vi. Subquery
  - vii. Single-row / scalar function

#### Jawab:

1. McD ingin mengetahui menu apa yang paling banyak dipesan oleh pelanggan MCD lewat data transaksi.

**Komponen:** WHERE, LIMIT, GROUP BY, JOIN, AGGREGATION (SUM)

# **Query:**

```
SELECT name_menu `Nama Menu`, COUNT(*) `Jumlah dipesan` FROM transaction

JOIN menu ON transaction.m_id = menu_id

GROUP BY m_id

LIMIT 1;
```

2. McD ingin membuatkan password bagi 10 karyawan yang menghandle transaksi di store McD dengan algoritma enkripsi berupa nama depan ditambah 4 huruf nama belakang dan ditambah reverse dari 4 huruf nama depan + 4 huruf nama belakang **Komponen:** WHERE, LIMIT, GROUP BY, JOIN

# **Ouerv:**

SELECT CONCAT(employee.first\_name\_emp, ' ', employee.last\_name\_emp) `Nama Employee`,

lower(concat(concat(left(employee.first\_name\_emp,4),right(employee.last\_name\_emp,4)),reverse(concat(left(employee.first\_name\_emp,4),

right(employee.last\_name\_emp,4))))) 'Pass for employee'

FROM employee

JOIN transaction ON (transaction.e id = employee.employee id)

**GROUP BY 1** 

HAVING count(\*) > 0

limit 0, 10;

+	ass for employee
Arya Crosby a Dane Mayer de Eman Watt e Kamron Mayor k Mattie Gilmour me Maxime Leach me Rhianna Joyce results.	rnoeronnoreonra   ryaosbyybsoayra   aneayerreyaenad   manwattttawname   amrayorroyarmak   attmourruomttam   axieachhcaeixam   hiaoyceecyoaihr   allokerrekollas   tewltonnotlwets

3. McDonalds ingin memberikan sebuah apresiasi kepada para pekerjanya berupa sebuah asuransi. Syarat untuk mendapatkan asuransi tersebut yaitu pekerja yang telah melayani customer dengan total customer terbanyak, melayani lebih dari 9x, dan hanya diambil sebanyak 3 pekerja dari menangani order customer tertinggi. Kemudian, McD ingin menampilkan juga total banyaknya menu yang dipesan oleh customer yang dilayani oleh pekerja tersebut. McD ingin mengurutkan tampilan dari Order Handle paling banyak. Selain itu, untuk kebutuhan asuransi, McD juga butuh menampilkan nama dari pekerja tersebut, id, dan tanggal awal pekerja tersebut bergabung.

# Komponen:

SUBQUERY, GROUP BY dan HAVING CLAUSE, AGGREGATION (COUNT, SUM)

# **Query:**

**SELECT** 

IF(t.E\_ID IS NOT NULL, CONCAT(e.first\_name\_emp, ' ', e.last\_name\_emp), '-')AS "Employee Name",

E\_ID AS "Employee ID", DATE\_FORMAT(e.join\_date\_emp, '%d %M %Y') AS "Employee Join Date", COUNT(\*) AS "Order Handle",

SUM(t.m qty) AS "Total Menu Quantity"

FROM Transaction t

JOIN Employee e ON(e.Employee ID = t.E ID)

**GROUP BY 2** 

HAVING COUNT(\*) > 9

ORDER BY 4 DESC;

```
IF(t.E_ID_IS_NOT_NULL, CONCAT(e.first_name_emp, ' ', e.last_name_emp), '-')AS "Employee Name",
E_ID_AS "Employee ID", DATE_FORMAT(e.join_date_emp, '%d %M %Y') AS "Employee Join Date", COUNT(*) AS "Order Handle'
SUM(t.m_qty) AS "Total Menu Quantity"
    -> FROM Transaction t
-> JOIN Employee e ON(e.Employee_ID = t.E_ID)
    -> GROUP BY 2
       HAVING COUNT(*) > 9
       ORDER BY 4 DESC;
Employee Name | Employee ID | Employee Join Date | Order Handle | Total Menu Quantity |
 Maxime Leach
                      E0010
                                         07 September 2019
                                                                                    45
                                                                                                                 117
                       E0004
 Eman Watt
                                          06 March 2021
                                                                                                                  26
 Sally Booker
                      E0005
                                          25 January 2022
                                                                                                                  16
 rows in set (0.002 sec)
lariaDB [mcdonalds]> _
```

4. Mulai dari bulan Maret, McDonalds ingin mengadakan event baru yang akan dilaksanakan setiap bulannya yaitu Transaction of The Month sebagai bentuk apresiasi bagi pelanggan yang menggunakan aplikasi McDonalds untuk bertransaksi. Pada event ini, setiap bulannya McDonalds akan memilih seorang pemenang yang dipilih secara acak dari nominasi yang ada. Nominasi ini sendiri diambil dari 3 pelanggan online yang paling sering melakukan transaksi melalui aplikasi McDonalds selama satu bulan tersebut. Jika ada lebih dari 1 orang yang memiliki jumlah transaksi yang sama, akan dipilih yang memiliki akumulasi pembelanjaan tertinggi pada bulan itu.

#### Komponen:

JOIN, GROUP BY, LIMIT, HAVING, Single Row(CONCAT), AGGREGATION(COUNT, SUM)

# **Query:**

```
SELECT
            t.user id
                      AS
                           "User
                                  ID",
                                         CONCAT(ua.first name user,
ua.last name user) AS Name, COUNT(DISTINCT t.transaction number) AS
"Number of Transactions", SUM(t.m qty * m.price_menu) AS "Total Amount"
FROM transaction t
JOIN UserApp ua ON (t.user id = ua.userApp id)
JOIN menu m ON (t.m id = m.menu id)
WHERE t.user id IS NOT NULL AND MONTH(t.transaction date) = 3
GROUP BY 1
HAVING COUNT(*) > 1
ORDER BY 3 DESC, 4 DESC
LIMIT 3;
```

```
MariaDB [mcdonalds]> SELECT t.user_id AS "User ID", CONCAT(ua.first_name_user, ' ', ua.last_name_user) AS Name,
-> COUNT(DISTINCT t.transaction_number) AS "Number of Transactions", SUM(t.m_qty * m.price_menu) AS "Total Amount"
      -> FROM transaction t
      -> JOIN UserApp ua ON (t.user_id = ua.userApp_id)
-> JOIN menu m ON (t.m_id = m.menu_id)
-> WHERE t.user_id IS NOT NULL AND MONTH(t.transaction_date) = 3
      -> GROUP BY 1
      -> HAVING COUNT(*) > 1
-> ORDER BY 3 DESC, 4 DESC
       -> LIMIT 3;
 l User TD | Name
                                           Number of Transactions |
                                                                                  Total Amount
   U0002
                  Aline Zumary
                                                                                           1101683
   U0009
                  Isobel Stevens
                                                                             2
                                                                                            682000
                   Trisha Maleno
                                                                                            526819
   rows in set (0.002 sec)
```

5. McDonalds ingin memberikan sebuah apresiasi kepada para pekerjanya berupa sebuah asuransi. Syarat untuk mendapatkan asuransi tersebut yaitu pekerja yang telah melayani customer dengan total customer terbanyak, melayani lebih dari 3x, dan hanya diambil sebanyak 3 pekerja dari menangani order customer tertinggi. Namun, McD ingin mengurutkan tampilan dari Grand Total Transaction tersebut berdasarkan jumlah yang dibayarkan dari seluruh customer yang telah dilayaninya dengan total tertinggi. Selain itu, untuk kebutuhan asuransi, McD juga butuh menampilkan nama dari pekerja tersebut, id, dan tanggal awal pekerja tersebut bergabung.

**Komponen:** JOIN, CONCAT, DATE\_FORMAT, COUNT, GROUP\_CONCAT, GROUP BY, HAVING, ORDER BY, LIMIT

# **Query:**

**SELECT** 

IF(transaction.E ID IS NOT NULL,

CONCAT(employee.first\_name\_emp, ' ', employee.last\_name\_emp), '-') AS "Employee Name",

employee\_id AS "Employee ID",

DATE\_FORMAT(employee.join\_date\_emp, '%d %M %Y') AS "Employee Join Date",

COUNT(\*) AS "Order Handle",

GROUP CONCAT(transaction.user id) AS "Online Customer List",

CONCAT('Rp ', SUM(transaction.m\_qty \* menu.price\_menu)) AS "Grand Total Transaction"

FROM transaction

JOIN menu ON (transaction.m id = menu.menu\_id)

JOIN employee ON (transaction.e id = employee.employee id)

**GROUP BY 2** 

HAVING COUNT(\*) > 3

ORDER BY SUM(transaction.m\_qty \* menu.price\_menu) DESC LIMIT 3;



# 2. Transaction Processing (20 points; Sub-CPMK 9)

Buatlah **sebuah skenario** untuk melakukan **simulasi transaction processing** menggunakan Transaction Control Language (TCL). **Jelaskan** dan sertakan **screenshot eksekusinya**.

# Jawab:

Melihat kondisi bahan-bahan pokok yang harganya semakin meningkat, perusahaan merasa harga menu untuk kategori paket sedikit terlalu murah. Sehingga, perusahaan berniat untuk menaikkan harga Menu dengan Kategori Paket McD sebesar 15% dari harga mula-mula. Akibat dari kenaikan harga menu dengan Kategori Paket tersebut membuat penjualan semakin menurun. Maka dari itu, perusahaan melakukan sayembara kepada para Employee jika dapat melakukan promosi penjualan dan penjualan mencapai target maka Salary akan ditambahkan sebesar Rp1.000.000. Dari hasil sayembara tersebut terbukti bahwa Employee dengan tahun bergabung paling lama yang berposisi sebagai Cashier berhasil melakukan penjualan sesuai target karena mereka lebih berpengalaman menarik perhatian dalam menawarkan produk kepada customer. Pemenang dari sayembara tersebut adalah Abdullah Azwar yang akan mendapatkan tambahan Salary tersebut. Kemudian, perusahaan merasa ragu mengenai perubahan gaji dengan tersebut sehingga ingin mengembalikan database gaji ke gaji semula untuk melihat gaji awal Abdullah Azwar. Lalu, admin perusahaan masih ragu dan merasa tidak yakin untuk melakukan perubahan, sehingga untuk sementara ia melakukan pemulihan data seperti awal mula belum ada perubahan sama sekali.

```
SET @@AUTOCOMMIT = 0;

START TRANSACTION;

UPDATE menu SET Price_menu = (Price_menu + (Price_menu * 0.15)) WHERE Category

= "paket";

SAVEPOINT update_gaji;

UPDATE employee SET Salary = (Salary + 1000000) WHERE Employee_ID = "E0014";

ROLLBACK TO update_gaji;

ROLLBACK;

COMMIT;
```

```
👞 C:\Windows\System32\cmd.exe - mysql -h localhost -u root
MariaDB [mcdonalds]> SET @@AUTOCOMMIT = 0;
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]> START TRANSACTION;
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]> SELECT * FROM menu;
menu_id | name_menu
                                             | category | price_menu |
 F0001
             Double Big Mac
                                               ala carte
                                                                    50500
                                               ala carte
  F0002
             Egg and Cheese Muffin
                                                                    13000
  F0003
             Chicken Muffin
                                               ala carte
                                                                    20000
             Sausage Muffin
                                                                    22500
  F0004
                                               ala carte
             Egg Muffin
  F0005
                                                                    22500
                                               ala carte
             Triple Burger with Cheese
  F0006
                                               ala carte
                                                                    40000
  F0007
             Double Cheese Burger
                                               ala carte
                                                                    33000
  F0008
             Beef Burger
                                               ala carte
                                                                    14500
  F0009
             Cheese Burger Deluxe
                                               ala carte
                                                                    26500
  F0010
             Cheese Burger with Egg
                                               ala carte
                                                                    27000
  F0011
             PaNas 1
                                               paket
                                                                    27273
  F0012
             PaNas 2 + Rice
                                               paket
                                                                    38182
                                               paket
  F0013
             PaNas 2 + Fries
                                                                    49455
  F0014
             PaMer
                                               paket
                                                                    92727
  F0015
            Fish & Fries Combo
                                               paket
                                                                    34071
15 rows in set (0.001 sec)
MariaDB [mcdonalds]> UPDATE menu SET Price_menu = (Price_menu + (Price_menu * 0.15)) WHERE Category = "paket";
Query OK, 5 rows affected (0.013 sec)
Rows matched: 5 Changed: 5 Warnings: 0
Select C:\Windows\System32\cmd.exe - mysql -h localhost -u root
MariaDB [mcdonalds]> SELECT * FROM menu;
 menu_id | name_menu
                                      | category | price_menu |
 F0001
           Double Big Mac
                                       ala carte
                                                         50500
           Egg and Cheese Muffin
Chicken Muffin
                                                         13000
 F0002
                                        ala carte
 F0003
                                        ala carte
                                                          20000
           Sausage Muffin
Egg Muffin
 F0004
                                        ala carte
                                                         22500
 F0005
                                                         22500
                                        ala carte
 F0006
            Triple Burger with Cheese
                                        ala carte
                                                         40000
           Double Cheese Burger
 F0007
F0008
                                        ala carte
                                                         33000
           Beef Burger
                                                         14500
                                        ala carte
                                        ala carte
 F0009
           Cheese Burger Deluxe
                                                          26500
           Cheese Burger with Egg
 F0010
                                        ala carte
                                                         27000
                                                         31364
 F0011
           PaNas 1
PaNas 2 + Rice
PaNas 2 + Fries
                                        paket
 F0012
                                        paket
                                                         43909
 F0013
                                        paket
                                                         46523
 F0014
                                        paket
                                                         106636
 F0015
           Fish & Fries Combo
                                        paket
                                                          39182
15 rows in set (0.000 sec)
MariaDB [mcdonalds]> SELECT Salary FROM employee WHERE employee_id = "E0014";
Salary
 3000000
1 row in set (0.001 sec)
MariaDB [mcdonalds]> SAVEPOINT update_gaji;
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]> UPDATE employee SET Salary = (Salary + 1000000) WHERE Employee_ID = "E0014";
Query OK, 1 row affected (0.001 sec)
Rows matched: 1 Changed: 1 Warnings: 0
MariaDB [mcdonalds]> SELECT Salary FROM employee WHERE employee_id = "E0014";
```

Salary | ----+ 4000000 |

```
Select C:\Windows\System32\cmd.exe - mysql -h localhost -u root
1 row in set (0.001 sec)
MariaDB [mcdonalds]> ROLLBACK TO update_gaji;
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]> SELECT Salary FROM employee WHERE employee_id = "E0014";
Salary
3000000
1 row in set (0.000 sec)
MariaDB [mcdonalds]> ROLLBACK;
Query OK, 0 rows affected (0.043 sec)
MariaDB [mcdonalds]> SELECT * FROM menu;
 --------
| menu_id | name_menu
                                      | category | price_menu |
            Double Big Mac
                                       | ala carte |
           Egg and Cheese Muffin
Chicken Muffin
 F0002
                                       ala carte
                                                           13000
 F0003
                                       ala carte
                                                           20000
           Sausage Muffin
Egg Muffin
  F0004
                                        ala carte
                                                           22500
  F0005
                                         ala carte
                                                           22500
  F0006
            Triple Burger with Cheese | ala carte
                                                           40000
  F0007
            Double Cheese Burger
                                         ala carte
                                                           33000
  F0008
           Beef Burger
                                         ala carte
                                                           14500
  F0009
            Cheese Burger Deluxe
                                         ala carte
                                                           26500
            Cheese Burger with Egg
  F0010
                                         ala carte
                                                           27000
  F0011
            PaNas 1
                                         paket
                                                           27273
  F0012
            PaNas 2 + Rice
                                         paket
                                                           38182
  F0013
            PaNas 2 + Fries
                                         paket
                                                           40455
  F0014
            PaMer
                                         paket
                                                           92727
  F0015
          Fish & Fries Combo
                                         paket
                                                           34071
15 rows in set (0.001 sec)
MariaDB [mcdonalds]> COMMIT;
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]> _
```

# 3. User Management, Privilege Management, & Views (20 points; Sub-CPMK 11)

- a. Buatlah **3 user** dengan 3 peran / role yang berbeda. Jelaskan **fungsi dari setiap user** yang dibuat dan sertakan **screenshot eksekusinya**.
- b. Buatlah **3 view** yang berbeda sesuai dengan setiap role yang telah ditentukan sebelumnya. Jelaskan **fungsi dari setiap view** yang dibuat dan sertakan **screenshot eksekusinya**.
- c. Berikan **privilege kepada ketiga user** tersebut agar setiap user dapat melakukan **operasi terhadap view** sesuai dengan perannya masing-masing. Jelaskan **fungsi dari setiap privilege** yang diberikan dan sertakan **screenshot eksekusinya**.

#### Jawab:

3a.

User yang kami buat adalah sebagai berikut: divisi finance, divisi general manager dan divisi human resource. Untuk divisi finance tugas mereka adalah untuk memonitor semua perputaran (pendapatan store, gaji employee dan harga menu) uang. Untuk divisi general manager tugas mereka untuk memonitor tingkat manajerial pada store. Untuk divisi human resource tugas mereka adalah memonitor seluruh staff pada store.

CREATE USER 'gregorykurniawan\_Finance'@'localhost' IDENTIFIED BY 'gr3g0ryK'; CREATE USER 'renfredleeman\_GM'@'localhost' IDENTIFIED BY 'r3nfr3dL'; CREATE USER 'kamronmayor HR'@'localhost' IDENTIFIED BY 'k@mr0nM';

```
MariaDB [mysql]> CREATE USER 'gregorykurniawan_Finance'@'localhost' IDENTIFIED BY 'gr3g0ryK';
Query OK, 0 rows affected (0.002 sec)
MariaDB [mysql]> CREATE USER 'renfredleeman_GM'@'localhost' IDENTIFIED BY 'r3nfr3dL';
Query OK, 0 rows affected (0.000 sec)
MariaDB [mysql]> CREATE USER 'kamronmayor_HR'@'localhost' IDENTIFIED BY 'k@mr0nM';
Query OK, 0 rows affected (0.001 sec)
MariaDB [mysql] > select user, password from user;
                             Password
 gregorykurniawan_Finance
                             *275A8750435F8CDCE59F4900606A5C2FB9BEF8F0
 root
 pma
 renfredleeman_GM
                             *AECE04BD5A49A312EF26BB3956AA50B83A594497
                             *081C44A45E292FBFCD9154D6985DF19D907BF11F
 kamronmayor_HR
 rows in set (0.001 sec)
```

3b.

# **FINANCE**

# <u>View #1</u>

View pertama yang dibuat untuk bidang Finance menunjukan MENU apa saja yang dijual pada setiap cabang franchise McD yang ada beserta dengan harga setiap menunya.

# Query:

CREATE OR REPLACE VIEW store sells

AS

SELECT sell.str\_id `ID store`, CONCAT(storeMcD.name\_owner, '@', storeMcD.location) `Location`, menu.name\_menu `Menu Name`,menu.category `Menu Category`, menu.price menu `Menu Price`

FROM storeMcD, menu, sell

WHERE sell.str\_id = storeMcD.store\_id AND sell.m\_id = menu.menu\_id WITH CHECK OPTION;

-> AS -> : egory', men -> ! -> WITH Query OK, 0	donalds]> CREATE OR REPLACE VIEW stor  SELECT sell.str_id 'ID store', CONCAT u.price_menu 'Menu Price'  FROM storeMcD, menu, sell  WHERE sell.str_id = storeMcD.store_id  CHECK OPTION;  rows affected (0.002 sec)  donalds]> select * from store_sells;	_ (storeMcD.name_owner, '@', s		) `Location`,	menu.name_menu `Menu Name`,menu.category	' `Menu Cat
ID store	+    Location	+   Menu Name	+   Menu Category	+   Menu Price		
See   See	Nayasha Clarisa@Serpong Jaya Nayasha Clarisa@Serpong Jaya Nayasha Clarisa@Serpong Jaya Nayasha Clarisa@Serpong Jaya Nataniel Edbert@Summarecon Serpong Nataniel Edbert@Summarecon Serpong Bryant Richie@Summarecon Bekasi Bryant Richie@Summarecon Bekasi Bryant Richie@Summarecon Bekasi Bryant Richie@Summarecon Bekasi Asmodeus White@Daan Mogot Castin Hong@Citra Garden Castin Hong@Citra Garden Castin Hong@Citra Garden Albertus Alvin@Sunburst Gregory Kurniawan@Puri Indah Gregory Kurniawan@Puri Indah Aurelius Ivan@Ciater Aurelius Ivan@Ciater Maecyntha Irelynn@Sunter Maecyntha Irelynn@Sunter Maecyntha Irelynn@Sunter Vanessa Febry@Kemang	Double Big Mac Triple Burger with Cheese Beef Burger Double Cheese Burger Cheese Burger Deluxe Cheese Burger Deluxe Cheese Burger Deluxe Cheese Burger with Egg Double Big Mac Egg and Cheese Muffin Egg Muffin Chicken Muffin Sausage Muffin Fish & Fries Combo PaNas 1 PaMer PaNas 2 + Rice PaNas 2 + Fries Fish & Fries Combo Double Big Mac Double Big Mac Double Cheese Burger Egg and Cheese Muffin Triple Burger with Cheese Cheese Burger Deluxe Cheese Burger Deluxe Cheese Burger peluxe	ala carte paket paket paket paket paket paket paket ala carte ala carte	55500 40000 14500 14500 26500 26500 12600 13000 13000 22500 13000 22500 13071 27773 36182 40455 34071 55500 33000 13900 140000 40000 40000 40000 127000		

# View #2

View kedua berfungsi agar bidang keuangan McD dapat memonitor rekapan dari transaksi-transaksi yang ada. Rekapan transaksi ini berisi id dari setiap store dan transaksi apa saja yang di-handle beserta menu-menu yang dipesan pada setiap transaksi dan total harga dari setiap transaksi.

# **Ouery:**

CREATE OR REPLACE VIEW store\_transactions AS

SELECT transaction.str\_id `Store ID` ,transaction.transaction\_number `Transaction`,
GROUP\_CONCAT(menu.name\_menu) `Ordered Menu`,
SUM(transaction.m\_qty\*menu.price\_menu) `Total Price`
FROM storeMcD, menu, transaction
WHERE storeMcD.store\_id = transaction.str\_id AND transaction.m\_id = menu.menu\_id
GROUP BY 2
ORDER BY 1;

```
Recision (proteonable) - GRATIO BRANCA VIRIA storm, Promoction

- S SELECT STORM CONTROL PROCESS CONTROL OF STORM CONTROL PROCESS CONTROL OF STORM CONTROL PROCESS CONTROL OF STORM CONTROL CO
```

# View #3

Bidang finance tentunya juga perlu mengatur pengeluaran yang akan dikeluarkan untuk gaji para karyawannya, sehingga terdapat view khusus untuk melihat id karyawan, nama lengkap, tanggal seorang karyawan memulai kerjanya di McD, dan gaji yang perlu diterima oleh setiap karyawan yang ada.

# Query:

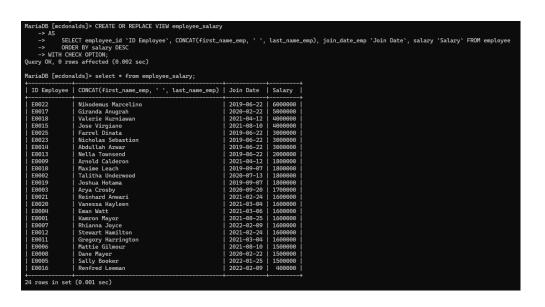
CREATE OR REPLACE VIEW employee\_salary

AS

SELECT employee\_id `ID Employee`, CONCAT(first\_name\_emp, ' ', last\_name\_emp), join\_date\_emp `Join Date`, salary `FROM employee

ORDER BY salary DESC

WITH CHECK OPTION;



# <u>GM</u>

# View #1

Sebagai view untuk membantu GM mengawasi setiap store yang ada, GM diberikan view khusus untuk memeriksa lokasi dari setiap cabang McD yang dibuka dan nama pemiliknya. Selain itu, setiap toko juga memiliki manager, sehingga terdapat nama dan id manager yang membantu pengoperasian setiap cabang McD.

# Query:

CREATE OR REPLACE VIEW store\_manager\_details AS

 $SELECT\ CONCAT (storeMcD.name\_owner,\ '@',\ storeMcD.location)\ `Location`, \\ CONCAT (manager.manager_id,\ '@',\ CONCAT (manager.first\_name\_manager,\ '\ ', \\ last\_name\_manager))\ `Handles\_manager`$ 

FROM employee, manager, storeMcD

WHERE employee.str\_id = storeMcD.store\_id AND employee.mngr\_id = manager.manager\_id

GROUP BY 1;

# View #2

Seorang GM yang memiliki akses untuk melihat tabel data yang berisi lokasi dan nama pemilik setiap cabang McD dan rekapan hasil penjualan berdasarkan bulannya.

# Query:

CREATE OR REPLACE VIEW store\_transaction\_details AS

SELECT CONCAT(storeMcD.name\_owner, '@', storeMcD.location) 'Location', MONTH(transaction\_date) `Month`, SUM(transaction.m\_qty\*menu.price\_menu) `Total Price`

FROM transaction, storeMcD, menu

WHERE transaction.str\_id = storeMcD.store\_id AND transaction.m\_id = menu.menu\_id GROUP BY 1;

# View #3

Setiap manager yang membantu berjalannya sebuah cabang mendapat hak asuransi untuk keluarganya. Oleh karena itu, GM juga perlu melihat data dari keluarga manager yang disediakan dalam view ini.

# Ouerv:

CREATE OR REPLACE VIEW manager\_relatives AS

```
SELECT CONCAT(manager.first_name_manager, ' ', manager.last_name_manager)

`Manager Name`, family_member.name_fam `Manager Relative`

FROM manager, family_member

WHERE family_member.mngr_id = manager.manager_id

GROUP BY 1;
```

```
MariaDB [mcdonalds]> CREATE OR REPLACE VIEW manager_relatives
               SELECT CONCAT(manager.first_name_manager, ' ', manager.last_name_manager) 'Manager Name', family_member.name_fam 'Manager Relative
-> SELECT CONCAI(manager.+rrst_name_manager, ' ', ma

-> FROM manager, family_member

-> WHERE family_member.mngr_id = manager.manager_id

-> GROUP BY 1;

Query OK, 0 rows affected (0.001 sec)
MariaDB [mcdonalds]> select * from manager_relatives;
                                | Manager Relative |
| Manager Name
  Farrel Dinata
Giranda Anugrah
                                | Bardi Smarty
| Spiresa Latunia
  Jose Virgiano
Joshua Hotama
                                  .
Jared James
Loui Vito
  Nicholas Sebastion
Nikodemus Marcelino
                                | Shaqueela
| Owen Hunt
  Reinhard Anwari
Renfred Leeman
                                  Farenza Noren
                                  Rainy Xarexa
Tunisa Kalila
   Valerie Kurniawan
       ws in set (0.001 sec)
```

# <u>HR</u>

# View #1

Sebagai bagian dari Human Relation pada sebuah kantor, bagian HR perlu melihat cabang-cabang dari McD beserta lokasi dan tanggal buka pertamanya.

# Query:

CREATE OR REPLACE VIEW store\_owners AS

SELECT CONCAT(storeMcD.name\_owner, '@', storeMcD.location) `Location`, storeMcD.first\_open `First Open` FROM storeMcD WITH CHECK OPTION;

## View #2

Bagian HR perlu melihat kinerja dari employee oleh karena itu HR dapat melihat 3 employee terbaik.

## Query:

CREATE OR REPLACE VIEW best\_employee\_performance\_list AS

### **SELECT**

IF(t.E\_ID IS NOT NULL, CONCAT(e.first\_name\_emp, ' ', e.last\_name\_emp), '-')AS "Employee Name",

E\_ID AS "Employee ID", DATE\_FORMAT(e.join\_date\_emp, '%d %M %Y') AS "Employee Join Date", COUNT(\*) AS "Order Handle"

FROM Transaction t

JOIN Employee e ON(e.Employee ID = t.E ID)

**GROUP BY 2** 

HAVING COUNT(\*) > 9

ORDER BY 3 DESC;

### View #3

Bagian HR pastinya juga perlu mengurus keperluan dengan pihak supplier untuk bahan-bahan makanan yang digunakan untuk membuat sebuah menu. Oleh karena itu, HR diberikan akses untuk view yang berisi nama supplier, alamat, dan kontaknya.

## Query:

CREATE OR REPLACE VIEW McDonalds\_suppliers AS

SELECT name\_supplier `Supplier's Name`, address\_supplier `Supplier's Address`, phone\_number\_supplier `Supplier's Contact Person`

FROM supplier

WITH CHECK OPTION;

```
3c
GRANT
              SELECT
                                                                            TO
                             ON
                                       McDonalds.store manager details
'renfredleeman GM'@'localhost';
GRANT
              SELECT
                            ON
                                      McDonalds.store transaction details
                                                                            TO
'renfredleeman GM'@'localhost';
GRANT SELECT ON McDonalds.manager relatives TO 'renfredleeman GM'@'localhost';
GRANT SELECT ON McDonalds.store owners TO 'kamronmayor HR'@'localhost';
GRANT
          SELECT.
                     INSERT.
                                UPDATE
                                           ON
                                                 McDonalds.store managers
                                                                            TO
'kamronmayor HR'@'localhost';
         SELECT, INSERT,
                                                                           TO
GRANT
                             UPDATE ON McDonalds.McDonalds suppliers
'kamronmayor HR'@'localhost';
```

```
GRANT SELECT ON McDonalds.store_sells TO 'gregorykurniawan_Finance'@'localhost';
GRANT SELECT ON McDonalds.store_transactions TO 'gregorykurniawan_Finance'@'localhost';
GRANT SELECT ON McDonalds.employee_salary TO 'gregorykurniawan_Finance'@'localhost';
```

```
MariaDB [mcdonalds]> GRANT SELECT ON McDonalds.store_manager_details TO 'renfredleeman_GM'@'localhost';
Query OK, 0 rows affected (0.001 sec)
MariaDB [mcdonalds]> GRANT SELECT ON McDonalds.store_transaction_details TO 'renfredleeman_GM'@'localhost';
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]> GRANT SELECT ON McDonalds.manager_relatives TO 'renfredleeman_GM'@'localhost';
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]>
MariaDB [mcdonalds]> GRANT SELECT ON McDonalds.store_owners TO 'kamronmayor_HR'@'localhost';
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]> GRANT SELECT, INSERT, UPDATE ON McDonalds.store_managers TO 'kamronmayor_HR'@'localhost';
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]> GRANT SELECT, INSERT, UPDATE ON McDonalds.McDonalds_suppliers TO 'kamronmayor_HR'@'localhost';
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]>
MariaDB [mcdonalds] > GRANT SELECT ON McDonalds.store_sells TO 'gregorykurniawan_Finance'@'localhost';
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]> GRANT SELECT ON McDonalds.store_transactions TO 'gregorykurniawan_Finance'@'localhost';
Query OK, 0 rows affected (0.000 sec)
MariaDB [mcdonalds]> GRANT SELECT ON McDonalds.employee_salary TO 'gregorykurniawan_Finance'@'localhost';
Query OK, 0 rows affected (0.001 sec)
```

### User gregorykurniawan Finance

```
C:\xampp\mysql\bin>mysql -u gregorykurniawan_Finance -p
Enter password: *******
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 13
Server version: 10.4.25-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)] > use mcdonalds;
Database changed
MariaDB [mcdonalds]> select * from store_sells;
                                                                                      Menu Category | Menu Price |
  ID store | Location
                                                      | Menu Name
  S0001
              Nayasha Clarisa@Serpong Jaya
                                                       Double Big Mac
                                                                                      ala carte
                                                                                                              50500
  S0001
              Nayasha Clarisa@Serpong Jaya
                                                       Triple Burger with Cheese
                                                                                                              40000
                                                                                      ala carte
  S0001
              Nayasha Clarisa@Serpong Jaya
                                                       Beef Burger
                                                                                                              14500
                                                                                      ala carte
  S0002
              Nataniel Edbert@Summarecon Serpong
                                                       Double Cheese Burger
                                                                                      ala carte
                                                                                                              33000
  S0002
              Nataniel Edbert@Summarecon Serpong
                                                       Cheese Burger Deluxe
                                                                                      ala carte
                                                                                                              26500
  S0003
              Bryant Richie@Summarecon Bekasi
                                                       Cheese Burger Deluxe
                                                                                      ala carte
                                                                                                              26500
  S0003
              Bryant Richie@Summarecon Bekasi
                                                       Cheese Burger with Egg
                                                                                      ala carte
                                                                                                              27000
  S0003
              Bryant Richie@Summarecon Bekasi
                                                       Double Big Mac
                                                                                      ala carte
                                                                                                              50500
  S0004
              Asmodeus White@Daan Mogot
                                                       Egg and Cheese Muffin
                                                                                      ala carte
                                                                                                              13000
                                                       Egg Muffin
  S0004
              Asmodeus White@Daan Mogot
                                                                                      ala carte
                                                                                                              22500
  S0005
              Castin Hong@Citra Garden
                                                       Chicken Muffin
                                                                                      ala carte
                                                                                                              20000
  S0005
              Castin Hong@Citra Garden
                                                       Sausage Muffin
                                                                                      ala carte
                                                                                                              22500
  S0006
              Albertus Alvin@Sunburst
                                                       Fish & Fries Combo
                                                                                      paket
                                                                                                              34071
                                                       PaNas 1
  S0007
              Gregory Kurniawan@Puri Indah
                                                                                      paket
                                                                                                              27273
  50007
              Gregory Kurniawan@Puri Indah
                                                       PaMer
                                                                                      paket
                                                                                                              92727
                                                       PaNas 2 + Rice
  S0008
              Aurelius Ivan@Ciater
                                                                                      paket
                                                                                                              38182
                                                       Panas 2 + Rice
PaNas 2 + Fries
Fish & Fries Combo
Double Big Mac
  S0008
              Aurelius Ivan@Ciater
                                                                                      paket
                                                                                                              40455
  S0009
              Maecyntha Irelynn@Sunter
                                                                                      paket
                                                                                                              34071
              Maecyntha Irelynn@Sunter
                                                                                                              50500
  S0009
                                                                                       ala carte
              Maecyntha Irelynn@Sunter
                                                       Double Cheese Burger
  S0009
                                                                                      ala carte
                                                                                                              33000
  50010
              Vanessa Febry@Kemang
                                                       Egg and Cheese Muffin
                                                                                      ala carte
                                                                                                              13000
                                                       Triple Burger with Cheese
Triple Burger with Cheese
Cheese Burger Deluxe
  50010
              Vanessa Febry@Kemang
                                                                                                              40000
                                                                                      ala carte
              Vanessa Febry@Kemang
  50010
                                                                                      ala carte
                                                                                                              40000
  50010
              Vanessa Febry@Kemang
                                                                                                              26500
                                                                                      ala carte
              Vanessa Febry@Kemang
  S0010
                                                       Cheese Burger with Egg
                                                                                      ala carte
                                                                                                              27000
25 rows in set (0.001 sec)
MariaDB [mcdonalds]>
```

Store ID	Transaction	Ordered Menu	Total Price
 50001	T0002	Double Big Mac, Chicken Muffin, Egg and Cheese Muffin	184500
50001	T0007	Double Big Mac,Egg Muffin,Egg and Cheese Muffin	187000
50001	T0017	Chicken Muffin, Double Big Mac, Egg Muffin, Sausage Muffin	135500
50001	T0021	PaMer.PaNas 1.Double Big Mac	170500
50002	T0001	Chicken Muffin, Sausage Muffin, Egg and Cheese Muffin, Cheese Burger with Egg, Egg and Cheese Muffin, Double Big Mac, Beef Burger, Sausage Muffin, Triple Burger with Cheese	487000
50002	T0008	Egg and Cheese Muffin, Egg Muffin, Double Big Mac. Sausage Muffin, Chicken Muffin	395000
50002	T0010	Chicken Muffin, Egg and Cheese Muffin, Egg Muffin, Double Big Mac, Sausage Muffin	395000
50002	T0011	PaNas 1.Double Big Mac.Cheese Burger with Egg.Chicken Muffin.Egg and Cheese Muffin	427046
50002	T0012	PaNas 2 + Fries. PaNas 2 + Rice. Double Big Mac. PaNas 1. PaMer	844183
50002	T0013	Double Big Mac Sausage Muffin Chicken Muffin Egg and Cheese Muffin Egg Muffin	395000
50002	T0015	Double Big Mac, Egg Muffin, PaNas 1, Chicken Muffin, Cheese Burger Deluxe, Egg and Cheese Muffin, Double Cheese Burger	358319
50002	T0016	Sausage Muffin, Double Big Mac, Egg and Cheese Muffin	200000
50002	T0023	PaNas 2 + Rice Double Big Mac.Chicken Muffin.Egg Muffin	176182
50002	T0026	Egg and Cheese Muffin, Egg Muffin, Double Big Mac	112000
50003	T0003	Egg and Cheese Muffin, Egg Muffin, Chicken Muffin	95500
50003	T0009	Chicken Muffin, Triple Burger with Cheese.Egg Muffin, Sausage Muffin, Double Cheese Burger	546500
50003	T0018	Double Big Mac.Egg and Cheese Muffin Sausage Muffin Chicken Muffin	169500
50003	T0022	Beef Burger, Egg and Cheese Muffin, Fish & Fries Combo	137642
50003	T0027	Chicken Muffin, Sausage Muffin, Double Big Mac	194000
50003	T0029	Egg and Cheese Muffin, Double Big Mac, Chicken Muffin, Egg Muffin	119000
50004	T0004	Chicken Muffin, Egg and Cheese Muffin, Sausage Muffin	91000
50004	T0019	Chicken Muffin, Egg Muffin, Egg and Cheese Muffin	104000
50005	T0028	Egg and Cheese Muffin, Double Big Mac, Sausage Muffin	187000
0006	T0020	Chicken Muffin, Egg and Cheese Muffin, Cheese Burger with Egg	73000
50007	T0005	Egg Muffin, Sausage Muffin, Double Big Mac	168500
50007	T0024	Sausage Muffin, Egg and Cheese Muffin, Double Big Mac	131000
80008	T0006	Sausage Muffin, Chicken Muffin, Egg and Cheese Muffin, Egg Muffin, Double Big Mac	128500
80008	T0025	Egg Muffin,Double Big Mac,Chicken Muffin	133000
50010	T0030	Chicken Muffin Double Big Mac	161000

D Employee	CONCAT(first_name_emp, ' ', last_name_emp)	Join Date	Salary
E0022	Nikodemus Marcelino	2019–06–22	6000000
E0017	Giranda Anugrah	2020-02-22	5000000
E0018	Valerie Kurniawan	2021-04-12	4000000
E0015	Jose Virgiano	2021-08-10	4000000
E0025	Farrel Dinata	2019-06-22	3000000
E0023	Nicholas Sebastion	2019-06-22	3000000
E0014	Abdullah Azwar	2019-06-22	3000000
E0013	Nella Townsend	2019-06-22	2000000
E0009	Arnold Calderon	2021-04-12	1800000
E0010	Maxime Leach	2019-09-07	1800000
E0002	Talitha Underwood	2020-07-13	1800000
E0019	Joshua Hotama	2019-09-07	1800000
E0003	Arya Crosby	2020-09-20	1700000
E0021	Reinhard Anwari	2021-02-24	1600000
E0020	Vanessa Kayleen	2021-03-04	1600000
E0004	Eman Watt	2021-03-06	1600000
E0001	Kamron Mayor	2021-08-25	1600000
E0007	Rhianna Joyce	2022-02-09	1600000
E0012	Stewart Hamilton	2021-02-24	1600000
E0011	Gregory Harrington	2021-03-04	1600000
E0006	Mattie Gilmour	2021-08-10	1500000
E0008	Dane Mayer	2020-02-22	1500000
E0005	Sally Booker	2022-01-25	1500000
E0016	Renfred Leeman	2022-02-09	400000

## User renfredleeman GM

```
C:\xampp\mysql\bin>mysql -u renfredleeman_GM -p
Enter password: ********
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 14
Server version: 10.4.25-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
 Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> use mcdonalds;
Database changed
MariaDB [mcdonalds]> select * from store_manager_details;
   Albertus Alvin@Sunburst
Asmodeus White@Daan Mogot
Aurelius Ivan@Ciater
Bryant Richie@Summarecon Bekasi
                                                               M0001@Jose Virgiano
M0002@Renfred Leeman,M0002@Renfred Leeman
M0007@Reinhard Anwari
                                                                M0005@Joshua Hotama,M0005@Joshua Hotama,M0005@Joshua Hotama,M0005@Joshua Hotama
   Castin Hong@Citra Garden
                                                                M0006@Vanessa Kayleen
   Gregory Kurniawan@Puri Indah
                                                                M0010@Farrel Dinata
   Maecyntha Irelynn@Sunter
Nataniel Edbert@Summarecon Serpong
Nayasha Clarisa@Serpong Jaya
Vanessa Febry@Kemang
                                                               M0003@Giranda Anugrah
M0004@Valerie Kurniawan
M0008@Nikodemus Marcelino
                                                                M0009@Nicholas Sebastion
 .
10 rows in set (0.005 sec)
```

```
MariaDB [mcdonalds]> select * from store_transaction_details
 Location
                                     | Month | Total Price |
| Albertus Alvin@Sunburst
                                           3
                                                     73000
| Asmodeus White@Daan Mogot
                                           3
                                                    195000 |
| Aurelius Ivan@Ciater
                                           3
                                                    261500 |
 Bryant Richie@Summarecon Bekasi
                                           3
                                                   1262142
| Castin Hong@Citra Garden
                                           3
                                                    187000
 Gregory Kurniawan@Puri Indah
                                           3
                                                    299500
  Nataniel Edbert@Summarecon Serpong
                                           3
                                                   3789730
  Nayasha Clarisa@Serpong Jaya
                                           3
                                                    677500
                                           3 I
 Vanessa Febry@Kemang
                                                    161000 |
9 rows in set (0.001 sec)
```

MariaDB [mcdonalds]> select * from manager_relatives;					
Manager Name	Manager Relative				
Farrel Dinata   Giranda Anugrah   Jose Virgiano   Joshua Hotama   Nicholas Sebastion   Nikodemus Marcelino   Reinhard Anwari   Renfred Leeman   Valerie Kurniawan   Vanessa Kayleen +	Bardi Smarty     Spiresa Latunia     Jared James     Loui Vito     Shaqueela     Owen Hunt     Farenza Noren     Rainy Xarexa     Tunisa Kalila     Charies				

### User kamronmayor HR

```
C:\xampp\mysql\bin>mysql -u kamronmayor_HR -p
Enter password: ******
Welcome to the MariaDB monitor. Commands end with ; or \g.
Your MariaDB connection id is 15
Server version: 10.4.25-MariaDB mariadb.org binary distribution
Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.
Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.
MariaDB [(none)]> use mcdonalds;
Database changed
MariaDB [mcdonalds]> select * from store_owners;
Location
                                     | First Open |
 Nayasha Clarisa@Serpong Jaya
                                       2015-07-23
 Nataniel Edbert@Summarecon Serpong
                                       2019-08-11
 Bryant Richie@Summarecon Bekasi
                                       2011-01-09
 Asmodeus White@Daan Mogot
                                       2014-06-28
 Castin Hong@Citra Garden
                                       2018-11-18
 Albertus Alvin@Sunburst
                                       2016-12-07
 Gregory Kurniawan@Puri Indah
                                       2019-03-19
 Aurelius Ivan@Ciater
                                       2013-05-10
 Maecyntha Irelynn@Sunter
                                       2019-09-13
 Vanessa Febry@Kemang
                                       2014-01-27
10 rows in set (0.000 sec)
```

Location	Manager Name
Albertus Alvin@Sunburst	Jose Virgiano
Asmodeus White@Daan Mogot	Renfred Leeman, Renfred Leeman
Aurelius Ivan@Ciater	Reinhard Anwari
Bryant Richie@Summarecon Bekasi	Joshua Hotama,Joshua Hotama,Joshua Hotama,Joshua Hotama
Castin Hong@Citra Garden	Vanessa Kayleen
Gregory Kurniawan@Puri Indah	Farrel Dinata
Maecyntha Irelynn@Sunter	Giranda Anugrah
Nataniel Edbert@Summarecon Serpong	Valerie Kurniawan
Nayasha Clarisa@Serpong Jaya	Nikodemus Marcelino
Vanessa Febry@Kemang	Nicholas Sebastion

Supplier's Name	Supplier's Address	Supplier's Contact Person
Beef Lopez Foods	2000 Hall Blvd. Ponca City, OK 74601	   4056037500
Meat & Fish Keystone Foods	401 City Avenue, Suite 800 Bala Cynwyd	6102580888
Fish Kenny Longaker	8220 Calvine Rd, Sacramento	4257531545
Potato Frank Martinez	4725 Farrow Ave, Kansas City	3167449133
Potato Jenn Bunger	2815 ALDER RD, PASCO	993017826
Potato 100 Circle Farms	100 Circles Pr, SW, Prosser, WA	5098753155
Apple Mike Dietrich	12617 Hauser St, Overland Park, Kansas	9138889294
Lettuce Dirk Giannini	415 Espinosa Rd, Salinas, CA	8314440775
Coffee Gaviña Gourmet Coffee	2700 Fruitland Ave, Vernon, CA 90058	13235820671
Dairy Hildebrandt Farms	349 Main Ave E, West Fargo, ND 58078	17012811539

# 4. Stored Routines & Triggers (10 points; Sub-CPMK 14)

- a. Buatlah **2 stored procedure**. Jelaskan **fungsi dari setiap stored procedure** yang dibuat dan sertakan **screenshot eksekusinya**.
- b. Buatlah **2 stored function**. Jelaskan **fungsi dari setiap stored function** yang dibuat dan sertakan **screenshot eksekusinya dalam satu atau dua query**.
- c. Buatlah 2 trigger. Jelaskan fungsi dari setiap trigger yang dibuat dan sertakan screenshot yang menunjukkan bahwa trigger tersebut berhasil dieksekusi.

## Jawab:

a1. Procedure yang berfungsi untuk melakukan list bahan-bahan yang digunakan untuk membuat setiap menu

```
DROP PROCEDURE generate bahan;
DELIMITER //
CREATE PROCEDURE generate bahan(IN MENU VARCHAR(50))
BEGIN
 DECLARE menu id VARCHAR(50);
 DECLARE NamaMenu VARCHAR(50);
 DECLARE DaftarBahan VARCHAR(50);
 CREATE TEMPORARY TABLE result (hasil VARCHAR(50));
 IF (SELECT COUNT(*) = 0
 FROM Menu
 WHERE Menu.menu id = MENU)
 THEN INSERT INTO result(hasil) VALUES ("Menu Invalid! Please Try Again");
 ELSE
                SELECT
                           menu.name menu
                                              AS
                                                     `Nama
                                                              Menu',
GROUP CONCAT(ingredient.name ingredient) AS 'Bahan-Bahan'
 FROM menu
 LEFT JOIN ingredient ON menu.menu id = ingredient.m id
 WHERE Menu.menu id = MENU
 GROUP BY menu.name menu;
 END IF;
 DROP TEMPORARY TABLE result;
END//
DELIMITER;
```

## **Example:**

CALL generate bahan('F0001');

## **Output:**

MariaDB [mcdonald]	> CALL generate_bahan('F0001');
Nama Menu	Bahan-Bahan
Double Big Mac	Ground Beef,Swiss Cheese,Lettuce,Cucumber,Tomato,Mayonaise,Bun

a2. Procedure yang melakukan rekap transaksi per harinya dan dijumlahkan

```
DROP PROCEDURE data penjualan;
DELIMITER //
CREATE PROCEDURE data penjualan(IN TANGGAL DATE)
BEGIN
  DECLARE transaction id VARCHAR(50);
  DECLARE NamaMenu VARCHAR(50);
  DECLARE DaftarBahan VARCHAR(50);
  CREATE TEMPORARY TABLE result (hasil VARCHAR(50));
  IF (SELECT COUNT(*) = 0
  FROM transaction
  WHERE transaction.transaction date = TANGGAL)
  THEN INSERT INTO result(hasil) VALUES ("Tangal Kosong / Invalid! Please Try
Again");
  ELSE
      SELECT transaction.transaction number 'ID Transaksi', CONCAT("Rp",
SUM(menu.price_menu)) AS `Jumlah Harga`
  FROM transaction
  LEFT JOIN menu ON transaction.m id = menu.menu id
  WHERE transaction.transaction date = TANGGAL
  GROUP BY transaction.transaction number
  UNION
  SELECT "-----", "------"
  UNION
  SELECT "TOTAL", CONCAT("Rp", SUM(menu.price menu)) AS 'Jumlah Harga'
  FROM transaction
  LEFT JOIN menu ON transaction.m id = menu.menu id
  WHERE transaction.transaction date = TANGGAL
  GROUP BY transaction.transaction date;
  END IF;
  DROP TEMPORARY TABLE result;
END//
DELIMITER;
Example:
```

CALL

data penjualan('2022-03-01');

## **Output:**



b. 2 function berbeda yang dapat membuat **email dan password** khusus untuk setiap pekerja, dimana semua pekerja akan diberi email **"namaDepan.namaBelakang@mcdstore.com"** (work\_email) dan password berisi **YYYY-MM-DD** dari tanggal lahir **kecuali untuk kasir**. Password kasir menggunakan algoritma enkripsi berupa nama depan ditambah 4 huruf nama belakang dan ditambah reverse dari 4 huruf nama depan + 4 huruf nama belakang (work\_pass).

```
DELIMITER //
```

```
CREATE FUNCTION work email(fn VARCHAR (30), ln VARCHAR (30))
RETURNS VARCHAR (50)
BEGIN
  DECLARE email VARCHAR(50);
  SET email = LOWER(CONCAT(fn, ".", COALESCE(ln, ""), "@mcdstore.com"));
  RETURN email;
END//
CREATE FUNCTION work pass(fn VARCHAR (30), ln VARCHAR (30))
RETURNS VARCHAR(20)
BEGIN
  DECLARE pass VARCHAR(20);
  IF EXISTS (SELECT In FROM employee WHERE last name emp = In AND position =
'Cashier') THEN
    BEGIN
          SET pass = (lower(concat(concat(left(fn,4),right(ln,4)),reverse(concat(left(fn,4),
right(ln,4)))));
    END;
  ELSE
    BEGIN
         SET pass = (SELECT DATE FORMAT(birth date emp, "%Y%m%d") FROM
employee WHERE last name emp = ln);
   END;
  END IF;
  RETURN pass;
END//
```

# DELIMITER;

SELECT CONCAT(first\_name\_emp, " ", COALESCE(last\_name\_emp, "" )) `Full Name`, position, work\_email(first\_name\_emp, last\_name\_emp) as Email, work\_pass(first\_name\_emp, last\_name\_emp) as Password FROM employee;

	<_email(first_r	first_name_emp, " ", COALESCE(last name_emp, last_name_emp) as Email,	
Full Name	position	Email	Password
Kamron Mayor   Talitha Underwood   Arya Crosby   Eman Watt   Sally Booker   Mattie Gilmour   Rhianna Joyce   Dane Mayer   Arnold Calderon   Maxime Leach   Gregory Harrington   Stewart Hamilton   Nella Townsend   Abdullah Azwar	Cashier Crew Member Staff Cashier Intern Cashier Intern Crew Member Cashier Staff Cashier Cashier Staff Cashier Cashier	kamron.mayor@mcdstore.com talitha.underwood@mcdstore.com arya.crosby@mcdstore.com eman.watt@mcdstore.com sally.booker@mcdstore.com mattie.gilmour@mcdstore.com rhianna.joyce@mcdstore.com dane.mayer@mcdstore.com arnold.calderon@mcdstore.com gregory.harrington@mcdstore.com stewart.hamilton@mcdstore.com nella.townsend@mcdstore.com abdullah.azwar@mcdstore.com	kamrayorroyarmak 19921027 19941010 emanwattttawname 19980215 mattmourruomttam 20020622 19970127 19990827 maxieachhcaeixam 20020830 stewltonnotlwets 19930722 abduzwarrawzudba

c.

Trigger yang berfungsi untuk menyimpan data menu apa saja yang dijual oleh toko-toko franchise McD, sehingga jika ada menu yang tidak dijual lagi dari sebuah franchise, data akan **tersimpan di tabel store\_menu** namun statusnya akan berubah menjadi "DISCONTINUED" dan akan terdata juga **tanggal dihapusnya menu** (sell\_del). Tidak hanya untuk menyimpan history, tabel store\_menu juga akan menyimpan semua data menu dan store id yang masih tersedia dengan **status** "AVAILABLE". Jika user melakukan delete pada menu A di toko B, namun kemudian menambahkannya lagi, maka data yang tersimpan pada store\_menu **tidak akan double, melainkan statusnya akan kembali menjadi** "AVAILABLE" (sell\_new).

## # Tabel store menu

```
MariaDB [McDonalds]> select * from store_menu;
Empty set (0.001 sec)
```

DELIMITER //

### #TRIGGER penambahan menu

```
CREATE TRIGGER sell_new

AFTER INSERT ON sell

for each row

BEGIN

DECLARE i INT;

DECLARE tStr, tMenu, tName VARCHAR(30);

DECLARE c_sell CURSOR FOR

SELECT str_id, m_id, (SELECT Name_menu FROM menu WHERE menu_id = m_id)

FROM sell;

IF ( (SELECT COUNT(*) FROM store_menu) = 0 ) THEN

OPEN c_sell;

SET i = 0;
```

```
WHILE i < (SELECT (COUNT(*) - 1) FROM sell) DO
      FETCH c sell INTO tStr, tMenu, tName;
      INSERT INTO store menu()
      VALUES (tStr, tMenu, tName, "AVAILABLE", NULL);
      SET i = i + 1;
    END WHILE;
    CLOSE c sell;
  END IF;
  IF EXISTS (SELECT str id FROM store menu WHERE str id = NEW.str id AND m id
= NEW.m id) THEN
    UPDATE store menu
    SET status = "AVAILABLE", discontinued date = NULL
    WHERE str id = NEW.str id AND m id = NEW.m id;
 ELSE
    INSERT INTO store menu
      VALUES (NEW.str id, NEW.m id, (SELECT Name menu FROM menu WHERE
menu id = NEW.m id), "AVAILABLE", NULL);
  END IF;
END//
```

MariaDB [McDonalds]> INSERT INTO sell VALUES ("S0010", "F0004")// Query OK, 1 row affected (0.011 sec)								
MariaDB [McDonalds]> select * from store_menu//								
str_id	str_id   m_id   menu_name   status   discontinued_date							
50001	F0001	Double Big Mac	AVAILABLE	NULL I				
50001	F0006	Triple Burger with Cheese	AVAILABLE	NULL I				
50001	F0008	Beef Burger	AVAILABLE	NULL				
50002	F0007	Double Cheese Burger	AVAILABLE	NULL				
50002	F0009	Cheese Burger Deluxe	AVAILABLE					
!		Cheese Burger Deluxe	AVAILABLE					
		Cheese Burger with Egg	AVAILABLE	NULL				
	F0001		AVAILABLE	NULL				
50004	F0002		AVAILABLE	NULL				
50004	F0005		AVAILABLE	NULL				
50005	F0003	Chicken Muffin	AVAILABLE	NULL				
50005	F0004	Sausage Muffin	AVAILABLE	NULL				
50006	F0015	Fish & Fries Combo	AVAILABLE	NULL I				
i 50007	F0011	PaNas 1	AVAILABLE	NULL				
50007	F0014	PaMer	AVAILABLE	NULL				
50008	F0012	PaNas 2 + Rice	AVAILABLE	NULL				
50008	F0013	PaNas 2 + Fries	AVAILABLE	NULL				
50009	F0015	Fish & Fries Combo	AVAILABLE	NULL I				
50009	F0001	Double Big Mac	AVAILABLE	NULL İ				
		Double Cheese Burger	AVAILABLE	NULL				
		Egg and Cheese Muffin	AVAILABLE	NULL				
		Triple Burger with Cheese	AVAILABLE	NULL				
		Triple Burger with Cheese						
50010	F0009	Cheese Burger Deluxe	AVAILABLE	NULL				
50010	F0010	Cheese Burger with Egg	AVAILABLE	NULL				
S0010	F0004	Sausage Muffin	AVAILABLE	NULL				
26 rows in	n set (0.	.001 sec)		+				

INSERT INTO sell VALUES ("S0010", "F0004")//

## #TRIGGER penghapusan menu

END//

```
CREATE TRIGGER sell del
BEFORE DELETE ON sell
for each row
BEGIN
 DECLARE i INT;
  DECLARE tStr, tMenu, tName VARCHAR(30);
  DECLARE c sell CURSOR FOR
 SELECT str id, m id, (SELECT Name menu FROM menu WHERE menu id = m id)
 FROM sell;
  IF ( (SELECT COUNT(*) FROM store menu) = 0 ) THEN
    OPEN c sell;
    SET i = 0;
    WHILE i < (SELECT COUNT(*) FROM sell) DO
      FETCH c_sell INTO tStr, tMenu, tName;
      INSERT INTO store menu()
      VALUES (tStr, tMenu, tName, "AVAILABLE", NULL);
      SET i = i + 1;
    END WHILE;
    CLOSE c sell;
  END IF;
  UPDATE store menu
 SET status = "DISCONTINUED", discontinued_date = NOW()
  WHERE str id = OLD.str id AND m id = OLD.m id;
```

.rang โม	1cDonald:	s]> select * from store_menu,	′/	
str_id	m_id	menu_name	status	discontinued_date
0001	F0001	Double Big Mac	AVAILABLE	NULL
0001	F0006	Triple Burger with Cheese	AVAILABLE	NULL
60001	F0008	Beef Burger	AVAILABLE	NULL
60002	F0007	Double Cheese Burger	AVAILABLE	NULL
60002	F0009	Cheese Burger Deluxe	AVAILABLE	NULL
60003	F0009	Cheese Burger Deluxe	AVAILABLE	NULL
60003	F0010	Cheese Burger with Egg	AVAILABLE	NULL
60003	F0001	Double Big Mac	AVAILABLE	NULL
60004	F0002	Egg and Cheese Muffin	AVAILABLE	NULL
0004	F0005	Egg Muffin	AVAILABLE	NULL
0005	F0003	Chicken Muffin	AVAILABLE	NULL
0005	F0004	Sausage Muffin	AVAILABLE	NULL
60006	F0015	Fish & Fries Combo	AVAILABLE	NULL
0007	F0011	PaNas 1	AVAILABLE	NULL
0007	F0014	PaMer	AVAILABLE	NULL
80008	F0012	PaNas 2 + Rice	AVAILABLE	NULL
80008	F0013	PaNas 2 + Fries	AVAILABLE	NULL
60009	F0015	Fish & Fries Combo	AVAILABLE	NULL
60009	F0001	Double Big Mac	AVAILABLE	NULL
0009	F0007	Double Cheese Burger	AVAILABLE	NULL
60010	F0002	Egg and Cheese Muffin	DISCONTINUED	2022-12-12
0010	F0006	Triple Burger with Cheese	AVAILABLE	NULL
0010	F0006	Triple Burger with Cheese	AVAILABLE	NULL
0010		Cheese Burger Deluxe	AVAILABLE	NULL
0010	F0010	Cheese Burger with Egg	AVAILABLE	NULL

DELETE FROM sell WHERE str\_id = "S0010" AND m\_id = "F0002"//

Jika menu sudah pernah dihapus, lalu di-insert kembali

MariaDB [McDonalds]> select * from store_menu//						
str_id	m_id	menu_name	status	discontinued_date		
50001	F0001	Double Big Mac	AVAILABLE	NULL		
50001	F0006	Triple Burger with Cheese	AVAILABLE	NULL		
50001	F0008	Beef Burger	AVAILABLE	NULL		
50002	F0007	Double Cheese Burger	AVAILABLE	NULL		
50002	F0009	Cheese Burger Deluxe	AVAILABLE	NULL		
50003	F0009	Cheese Burger Deluxe	AVAILABLE	NULL		
50003	F0010	Cheese Burger with Egg	AVAILABLE	NULL		
50003	F0001	Double Big Mac	AVAILABLE	NULL		
50004	F0002	Egg and Cheese Muffin	AVAILABLE	NULL		
50004	F0005	Egg Muffin	AVAILABLE	NULL		
50005	F0003	Chicken Muffin	AVAILABLE	NULL		
50005	F0004	Sausage Muffin	AVAILABLE	NULL		
50006	F0015	Fish & Fries Combo	AVAILABLE	NULL		
50007	F0011	PaNas 1	AVAILABLE	NULL		
50007	F0014	PaMer	AVAILABLE	NULL		
50008	F0012	PaNas 2 + Rice	AVAILABLE	NULL		
50008	F0013	PaNas 2 + Fries	AVAILABLE	NULL		
50009	F0015	Fish & Fries Combo	AVAILABLE	NULL		
S0009	F0001	Double Big Mac	AVAILABLE	NULL		
50009	F0007	Double Cheese Burger	AVATLABLE	NULL		
S0010	F0002	Egg and Cheese Muffin	AVAILABLE	NULL		
50010		Triple Burger with Cheese				
50010	F0006	Triple Burger with Cheese				
50010	F0009	Cheese Burger Deluxe	AVAILABLE			
50010	F0010	Cheese Burger with Egg	AVAILABLE			
50010	F0004	Sausage Muffin	AVAILABLE	NULL		

INSERT INTO sell VALUES ("S0010", "F0002")//

# 5. Functional Dependencies & Normalization (30 points; Sub-CPMK 12, 13)

Dengan menggunakan data requirement yang sama, rancang kembali database (sesuai dengan topik yang telah dipilih) dengan menggunakan cara normalisasi. Tentukan dan gambarkan functional dependency dari data requirement tersebut. Lakukan normalisasi sampai dengan 3NF. Jelaskan setiap tahap yang dilakukan. Setelah itu, jelaskan apakah terdapat perbedaan (yang signifikan) antara database schema hasil normalisasi dan database schema yang telah dibuat sebelumnya dengan cara ER-to-relational mapping.

#### Jawab:

## Diagram Normalisasi

### Link drive:

https://drive.google.com/file/d/1c2gddkY66LcFaPHmWQ\_\_RoQu5ShV5655/view?usp=sharing

Perbedaan antara database schema dan normalisasi:

- Hasil normalisasi memiliki 1 tabel yang berisi semua primary key dari setiap entitas yang ada sebagai penyambung antar tabel, sedangkan pada database schema tidak ada 1 tabel khusus primary key, melainkan setiap tabel memiliki foreign key sendiri-sendiri yang menghubungkan ke tabel lain.
- Terdapat 1 tambahan tabel transitive pada hasil normalisasi, yaitu untuk **category** yang dapat ditentukan dari **nama menu**.

# 6. Evaluasi Diri (10 points; individual)

Tuliskan evaluasi Anda (masing-masing) terhadap pembagian tugas, kinerja kelompok, dan hasil kerja yang telah dicapai.

## <u>Jawab :</u>

Evaluasi Pembagian Tugas, Kinerja Kelompok, dan Hasil Kerja

# 1. Dari Gregory Kurniawan (00000056349)

Pembagian Tugas : pembagian tugas yang dilakukan oleh kelompok sangat proporsional dan sesuai dengan skill yang dimiliki setiap anggota.

	Kinerja Kelompok	Hasil Kerja
Nayasha Clarisa Dwisutrisna	Kami melakukan 3 meeting dan Nayasha selalu mengikuti meeting tapi ada telat di pertemuan 3 ada telat atau off dari jadwal meeting tapi tidak signifikan dan selalu menyelesaikan tugas yang diberikan	Nayasha mengerjakan nomor 1, 2, 5 untuk nomor 1 sebenarnya kami bagi tugas lagi dan bagian Nayasha dikerjakan dengan maksimal (outputnya benar), nomor 2 Nayasha mengerjakannya sendirian dan sekanrionya logis, untuk nomor 5 nayasha mengerjakan atau finishing dan review semua normalisasi yang telah dikerjakan oleh mae dan saya
Maecyntha Irelynn Tantra	Kami melakukan 3 meeting dan Mae selalu mengikuti meeting dan selalu menyelesaikan tugas yang diberikan	Mae mengerjakan nomor 1, 4, 5 untuk nomor 1 sebenarnya kami bagi tugas lagi dan bagian Mae dikerjakan dengan maksimal (outputnya benar), nomor 2 stored function dan trigger dikerjakan oleh mae dan keduanya dapat berfungsi dengan baik, nomor 5 mae mengerjakan normalisasi bersama-sama dan mae dapat berkoordinasi dengan baik.
Aurelius Ivan Wijaya	Kami melakukan 3 meeting dan Ivan selalu mengikuti meeting bahkan selalu yang memulai room meeting	Ivan mengerjakan nomor 1, 4, 5 untuk nomor 1 sebenarnya kami bagi tugas lagi dan bagian ivan

pertama kali dan tepat wakt dan selalu menyelesaika tugas yang diberikan	
--	--

NB: sudah jujur saya ko, emang bagus kinerjanya semua. Saya orangnya keep it real. Jika ada tugas kelompok lagi saya mau dan bersedia bekerja sama dengan mereka lagi.

# 2. Dari Nayasha Clarisa Dwisutrisna (00000056883)

Pembagian Tugas : Pembagian tugas sudah merata dan adil, dapat disanggupi oleh kemampuan masing-masing anggota. Tugas yang dikerjakan tidak ada yang terlalu banyak dan tidak ada yang terlalu dikit.

	Kinerja Kelompok	Hasil Kerja
Gregory Kurniawan	Gregory selalu mengikuti diskusi dan kerja kelompok. Anaknya sangat aktif dan kritis dalam setiap diskusi kerja kelompok yang dilakukan.	Hasil dari setiap pembagian kerja yang telah dilakukan, Gregory dapat menyelesaikannya dengan sangat baik dan penuh tanggung jawab, dia sangat memahami materi sehingga cukup sering melakukan koreksi. Dalam mengerjakan soal nomor 1 berhasil dilakukan dengan sangat baik. Kemudian untuk nomor 3 dapat diselesaikan dengan baik olehnya walaupun terdapat koreksi serta diskusi dan bantuan lebih lanjut dari anggota lain. Terakhir, untuk nomor 5 Gregory sangat mengerjakannya dengan banyak dan dapat diselesaikan sesuai harapan diskusi kelompok.
Maecyntha Irelynn Tantra	Maecyntha selalu mengikuti	Hasil kerja dari pembagian

	kerja kelompok yang ada. Selain itu, memiliki komunikasi yang sangat baik sehingga setiap ada kesalahan dapat tersampaikan dengan baik dan nyaman/tidak merasa direndahkan.	tugas yang Maecyntha lakukan dapat terselesaikan dengan sangat baik. Dalam pengerjaan nomor 1, Mae berhasil melakukannya dengan baik oleh dirinya sendiri. Pengerjaan di nomor 4 dapat berkoordinasi dengan baik bersama Ivan sehingga dapat terselesaikan sesuai skenario yang direncanakan. Nomor 5, Mae cukup banyak ikut mengerjakan normalisasinya dan memberi banyak ide.
Aurelius Ivan Wijaya	Ivan sangat memiliki inisiatif untuk selalu memulai meeting duluan, sehingga ia selalu hadir di setiap diskusi kerja kelompok yang telah dilakukan. Selain hadir juga cukup aktif dalam berdiskusi.	Setiap pembagian tugas yang telah dilakukan, Ivan dapat menyelesaikannya dengan baik. Dalam pengerjaan di Nomor 1 Ivan mengerjakan 2 nomor, walaupun ada sedikit kendala namun dapat terselesaikan dengan baik. Pengerjaan di nomor 4 juga Ivan diselesaikan sendiri oleh Ivan dan berjalan dengan baik, bahkan ia berinisiatif sempat membantu mengerjakan bagian lain di nomor 4, namun telah diselesaikan juga dengan sangat baik oleh Mae. Pengerjaan nomor 5 Ivan cukup memberikan beberapa masukan dalam pengerjaan normalisasi.

# 3. Dari Aurelius Ivan Wijaya (00000054769)

Pembagian Tugas : Pembagian tugas sudah setara dan saling melengkapi sesuai kapasitas masing-masing anggota.

	Kinerja Kelompok	Hasil Kerja
Nayasha Clarisa Dwisutrisna	Nayasha selalu hadir	Mengerjakan DDL

	saat meeting dari awal sampai selesai.  Berinisiatif membantu saat ada anggota tim yang kesulitan.  Nayasha dapat mengerjakan bagian tugasnya dengan cepat dan rapi terutama untuk nomor 1,2 dan 5.	<ul> <li>Mengerjakan Nomor 2 Seorang Diri</li> <li>Bekerja sama dengan saya dalam mengerjakan Nomor 1.</li> <li>Banyak terlibat dalam pengerjaan nomor 5.</li> </ul>
Maecyntha Irelynn Tantra	<ul> <li>Maecyntha         bertanggung jawab         terhadap bagian yang         diberikan dan         mengerjakan nya         dengan baik.</li> <li>Aktif memberikan         banyak masukan         ketika dimintai saran         terhadap pengerjaan         soal.</li> <li>Dapat bekerja sama         dengan baik.         Contohnya, bekerja         sama dengan Saya         dalam mengerjakan         nomor 4.</li> </ul>	<ul> <li>Dalam pengerjaan nomor 1, Mae dapat menyelesaikan nya dengan Rapi.</li> <li>Mengerjakan nomor 4 hingga selesai sesuai bagiannya.</li> <li>Membantu saya mengoreksi nomor 1.</li> <li>Banyak terlibat dalam pengerjaan nomor 5</li> </ul>
Gregory Kurniawan	<ul> <li>Gregory selalu hadir dalam rapat dan mengerjakan bagiannya dengan baik.</li> <li>Tidak segan membantu tugas yang lain yang sedang memiliki kendala.</li> <li>dapat merespon dengan cepat.</li> <li>Sering membantu saya jika ada kendala saat pengerjaan</li> </ul>	<ul> <li>Gregory dapat menyelesaikannya dengan sangat baik dan penuh tanggung jawab,</li> <li>Mengerjakan Nomor 1, 3, dan 5 sampai selesai.</li> <li>Membantu saya menyelesaikan kendala di Nomor 1.</li> </ul>

# 4. Dari Maecyntha Irelynn Tantra (00000055038)

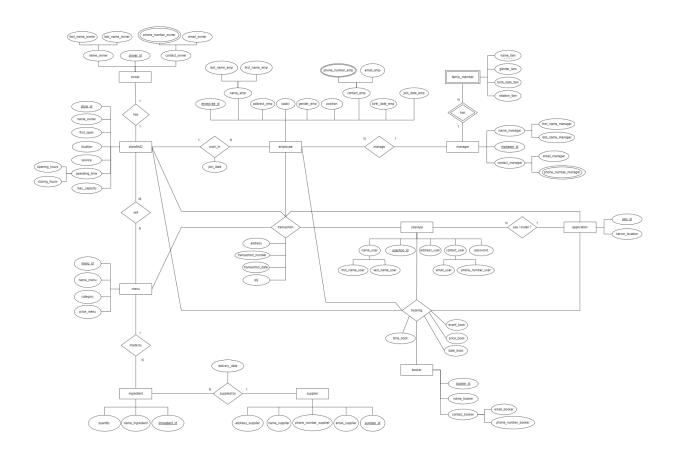
Pembagian Tugas: Pembagian tugas yang dilakukan menurut saya sudah sangat adil, dimana setiap anggota memiliki nomor utamanya sendiri dan ada juga nomor yang dikerjakan secara diskusi bersama-sama.

	Kinerja Kelompok	Hasil Kerja
Nayasha Clarisa Dwisutrisna	Setiap kali ada kerja kelompok, Nayasha selalu hadir dan mengikuti meeting sampai selesai. Selain itu, juga setelah pembagian tugas, biasa bisa dikerjakan dengan cepat saat ada sela waktu. Nayasha juga bisa merespon dengan cepat dan ikut membantu yang lain yang sebenarnya bukan tugasnya.	Hasil kerjanya sangat baik, apalagi untuk nomor 2 yang dikerjakan sendiri. Untuk nomor 1 juga dilakukan dengan baik, dimana query yang dihasilkan memang berguna. Untuk nomor 5, Nayasha melakukan review yang baik untuk hasilnya dan juga menambahkan beberapa yang ternyata kurang.
Aurelius Ivan Wijaya	Ivan selalu mengikuti kerja kelompok yang ada dan paling tepat waktu. Di kelompok ketika diberi tugas juga dikerjakan dengan baik.	Untuk hasil kerjanya juga sangat baik dimana untuk nomor 1, Ivan mengerjakan 2 nomor meskipun ada kendala tapi bisa diselesaikan dengan baik dan benar. Hasilnya untuk procedure pada nomor 4 juga sudah sangat bagus dimana juga karena itu kami punya sedikit perubahan pada erd dan schemanya untuk memaksimalkan procedure itu.
Gregory Kurniawan	Pada kerja kelompok yang ada, Gregory juga selalu hadir dan mengerjakan bagiannya dengan baik. Gregory juga berinisiatif untuk membantu tugas yang lain yang sedang memiliki kendala. Orangnya juga dapat diajak bekerja sama dengan baik dan dapat merespon dengan cepat.	Hasil kerja Gregory juga sangat baik, dimana nomor 3 dikerjakan semuanya sendiri dan mendiskusikan beberapa detail yang ada untuk memaksimalkan hasil kerjanya. Selain itu untuk nomor 1 juga hasilnya memuaskan, apalagi untuk nomor 5 dimana Gregory memulai pengerjaan nomor

seningga nasinya sangat baik.				lalu baru lagi sangat
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# **LAMPIRAN**

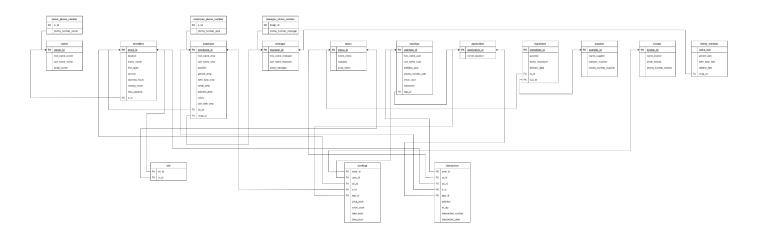
# 1. ERD



# Link Google Drive:

 $\frac{1}{\text{https://drive.google.com/file/d/1HnNJbiAAaxNPQ2C2EnwJRtpQXKq09t5G/view?usp=sharing}}{\text{ng}}$ 

# 2. DATABASE SCHEMA



# Link Google Drive:

https://drive.google.com/file/d/1gATxEapUihJcWULc\_Fikd2jvJMt5QQrN/view?usp=sharing