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BCI2023 DATABASE SYSTEMS

TITLE: SINGLE MOTHER SERVICE MANAGEMENT SYSTEM

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TABLE OF CONTENTS:

Part 1: Proposal of database system

- 1.0 Content of report
- 2.0 Comparison between two databases
- 3.0 Business Rules of Proposed System
- 4.0 ERD & EERD of Proposed System

Part 2: SQL & Normalization

- 5.0 Data Definition Language (DDL)
- 6.0 Data Manipulation Language (DML)
- 7.0 Normalization
- 8.0 Data Dictionary
- 9.0 References
- 10.0 Appendix

1.0 PROJECT BACKGROUND

The "Single Mother Service Management System" is a database application system designed to address the challenges faced by single mothers in the post-COVID-19 pandemic era. The COVID-19 pandemic has had a profound impact on individuals and communities, and single mothers have been particularly affected. Many single mothers faced increased financial strain, lost their jobs or had their working hours reduced due to lockdowns and economic uncertainties, childcare difficulties and health-related support during the pandemic. Thus, it is crucial to develop a system that provides support and services tailored to the unique needs of single mothers in this new normal.

The "Single Mother Service Management System" is essential to assist single mothers in rebuilding their lives after the challenges posed by the COVID-19 pandemic. It recognizes the need for a centralized platform that streamlines access to vital services and support, enabling single mothers to regain their economic stability, provide for their children, and maintain their overall well-being.

This project is significant because it directly addresses the impact of the COVID-19 pandemic on single mothers. By offering tailored support services, it aims to empower single mothers to rebuild their lives and create a more stable future for themselves and their children. The "Single Mother Service Management System" embodies the spirit of resilience and community support in these challenging times.

In conclusion, the "Single Mother Service Management System" is a vital project designed to assist single mothers in navigating the post-COVID-19 landscape. By offering a comprehensive set of services, it aims to empower single mothers, improve their well-being, and contribute to their long-term success and happiness.

OBJECTIVES

The objectives of the proposed system are: -

1. To create a database application system that offers a range of services to support single mothers in their daily life.
2. To provide a platform for single mothers to access resources, job opportunities, and financial assistance programs.
3. Facilitate the coordination of childcare services and resources, helping single mothers find suitable and affordable options for their children.
4. Offer health and wellness resources to address the physical and mental well-being of single mothers.
5. Foster a sense of community and connection by enabling single mothers to interact and share their experiences with others in similar situations.

SCOPES

A mother is frequently required to enter her preferred subject area of interest in a form-based inquiry in an e-management single mother management system. Some of the functions that this system provides are child coordination, health and wellness integration, and resource access and administration. It will gather resources, including financial aid and employment opportunities, to facilitate simple searching and filtering. Additionally, the system will make it easier for users to organize childcare, giving them access to appropriate and affordable solutions. It would also take mental and physical health into care. The program will expand its services through collaborations with community organizations, with the goal of empowering single moms by improving their standard of living and encouraging self-sufficiency.

2.0 Case study

Particularly in the aftermath of the COVID-19 outbreak, every single mother is entitled to a better life. They experienced tremendous things, both physically and mentally. To support their family and their children, they put in a lot of labor. The management service system for single mothers requires time to heal from the damage caused by the COVID-19 outbreak too. This is a fantastic chance for mutual profit for both parties.

To improve the quality of life for herself and her children, the system helps single mothers get more money, work, insurance, and counselling. Additionally, the system is incredibly user-friendly and can do a variety of operations that record information without requiring users to go to several companies or places, saving time and effort.

To register in the system, an applicant must meet certain prerequisites. It's because the management system works in collaboration with other companies, and thus it's imperative to make sure the applicants meet the requirements.

2.0 COMPARISON BETWEEN 2 DATABASES

	Manual Process	Database System 1	Database System 2
Process/ entities	<ul style="list-style-type: none"> • Registration • Referral from: (urban) village clinics, private midwife clinics, POSYANDU • ANC services by a midwife • Laboratory • Case management • Referral to a hospital • Pharmacy • Home • Treatment 	<ul style="list-style-type: none"> • Patient • Medicines • Tests • Treatments • Reports • Doctors • Roles • Permission • Login • User 	<ul style="list-style-type: none"> • Admin • Students • Choices • Seat Allotment • Courses • Institutes
Attributes		-Patient patient_id patient_name patient_mobile patient_email patient_username patient_password patient_address -Medicines medicine_id medicine_name medicine_company medicine_composition medicine_cost medicine_type medicine_dose medicine_description -Tests test_id test_patient_id test_name test_type test_cost test_report test_description -Treatments	<ul style="list-style-type: none"> • Admin -Admin_ID -Name -Contact No -Email Address -Gender • Students -Student_ID -Name -Contact No -Email Address -DOB -Entrance Rank -10/12th%age • Choices -Entrance Rank -1st Preference -2nd Preference -Status • Seat Allotment -Student_ID -Entrance Rank -Institute_Code -Course_Code -Preference No • Courses

		Treatment_id treatment_name treatment_type treatment_description -Reports report_id report_title report_type report_description -Doctors doctors_id doctors_name doctors_specialist doctors_mobile doctors_email doctors_username doctors_password doctors_address -Login login_id login_role_id login_username login_password -user user_id user_name user_mobile user_email user_address -Roles role_id role_name role_desc -permission per_id per_role_id per_module per_name	-Course_ID -Institute_ID -Of Seats -Total Seats ● Institutes -Institute_ID -Name -Contact No -Email Address -Address -Of Courses -Seats
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Primary keys		<ul style="list-style-type: none"> • Patient <ul style="list-style-type: none"> – Pat_ID • Medicines <ul style="list-style-type: none"> – Mdcn_ID • Tests <ul style="list-style-type: none"> – Test_ID • Reports <ul style="list-style-type: none"> – Rep_ID • Roles <ul style="list-style-type: none"> – Role_ID • Login <ul style="list-style-type: none"> – Login_ID • User <ul style="list-style-type: none"> – User_ID • Permission <ul style="list-style-type: none"> – Per_ID 	<ul style="list-style-type: none"> • Admin <ul style="list-style-type: none"> – Admin_ID • Students <ul style="list-style-type: none"> – Student_ID • Choices <ul style="list-style-type: none"> – Entrance Rank • Seat Allotment <ul style="list-style-type: none"> – Student_ID • Courses <ul style="list-style-type: none"> – Course_ID • Institutes <ul style="list-style-type: none"> – Institutes_ID
Diagram	Flowchart	ERD/EERD	ERD/EERD
References	ResearchGate. (2024). Indonesian antenatal nutrition education: A qualitative study of healthcare professional views - Scientific Figure. Retrieved January 1, 2024, from https://www.researchgate.net/figure/Flow-chart-of-the-integrated-antenatal-care-process-in-primary-health-centres25-27_fig2_356963384	Patient Care System ER Diagram FreeProjectz. (2017, July 17). https://www.freeprojectz.com/entity-relationship/patient-care-system-er-diagram	S. (2021, September 18). ONLINE STUDENT COUNSELING SYSTEM. Instant Edu Help. Retrieved December 31, 2022, from https://instanteduhelp.com/online-student-counseling-system

3.0 BUSSINESS RULES OF MANAGEMENT SYSTEM

ENTITY	RELATIONSHIP	ENTITY	BUSSINESS RULE
Mother PK: MotherIC FK1:ServiceID	1:N	Child PK: ChildIC FK: MotherIC	<ul style="list-style-type: none"> Each mother can have one or many children.
Child PK: ChildIC	1:1	Mother PK: MotherIC FK:ServiceID	<ul style="list-style-type: none"> Each child can only have one mother.
Child PK: ChildIC	0:N	Childcare Service PK: ChildcareID FK: ChildIC	<ul style="list-style-type: none"> Each child can receive zero or many childcare services.
Children_Service PK: ChildcareID	1:1	Child PK:ChildIC	<ul style="list-style-type: none"> Each childcare service must be received by one child.
Child PK: ChildIC	1:N	Child_patient PK1,FK1:ChildIC PK2,FK2:HospitalID	<ul style="list-style-type: none"> Each child can has one or many healthcare service for child patient.
Child_patient PK1,FK1:ChildIC PK2,FK2:HospitalID	1:1	Child PK: ChildIC	<ul style="list-style-type: none"> Each healthcare service must have one child for a child patient.

Donor PK: DonorIC	1:N	Donation PK: DonationID FK: DonorIC	<ul style="list-style-type: none"> Each donor can give many donations.
Donation PK: DonationID	1:N	Donor PK: DonorIC	<ul style="list-style-type: none"> Each donation can be given by only one donor.
Mother PK: MotherIC FK1: ServiceID	0:N	Mother_Coverage PK,FK1: InsuranceID PK,FK2: MotherIC	<ul style="list-style-type: none"> Each mother can consult zero or many insurances for mother coverage.
Mother_Coverage PK,FK1:InsuranceID PK,FK2:MotherIC	1:1	Mother PK:MotherIC FK1: ServiceID	<ul style="list-style-type: none"> Each insurance must be consulted by one mother for mother coverage.
Insurance PK: InsuranceID	0:N	Mother_Coverage PK,FK1: InsuranceID PK,FK2: MotherIC	<ul style="list-style-type: none"> Each insurance can be consulted by zero or many mother for mother coverage.
Mother_Coverage PK,FK1: InsuranceID PK,FK2: MotherIC	1:1	Insurance PK: InsuranceID FK: MotherIC	<ul style="list-style-type: none"> Each mother must be consulted by at least one insurance for mother coverage.

Healthcare_Service PK: HospitalID	1:N	Mother_Patient PK,FK1: MotherIC PK,FK2: HospitalID	<ul style="list-style-type: none"> Each healthcare service must be provided with at least one mother as their patient.
Mother_Patient PK,FK1: MotherIC PK,FK2: HospitalID	1:1	Healthcare_Service PK: HospitalID	<ul style="list-style-type: none"> Each mother may or may not be a patient that provided with one or more healthcare services
Mother PK:MotherIC FK1: ServiceID	1:N	Mother_Patient PK,FK1: MotherIC PK,FK2: HospitalID	<ul style="list-style-type: none"> Each mother can has one or many healthcare service for mother patient.
Mother_Patient PK,FK1: MotherIC PK,FK2: HospitalID	1:1	Mother PK: MotherIC FK1: ServiceID	<ul style="list-style-type: none"> Each healthcare service must have one mother for a mother patient.
Healthcare_Service PK:HospitalID	1:N	Child_Patient PK,FK1: ChildIC PK.FK2: HospitalID	<ul style="list-style-type: none"> Each healthcare service must provide with at least one child as their patient.
Child_Patient PK,FK1: ChildIC PK,FK2: HospitalID	1:1	Healthcare_Service PK: HospitalID	<ul style="list-style-type: none"> Each child may or may not be a patient that provided with one or more healthcare services.

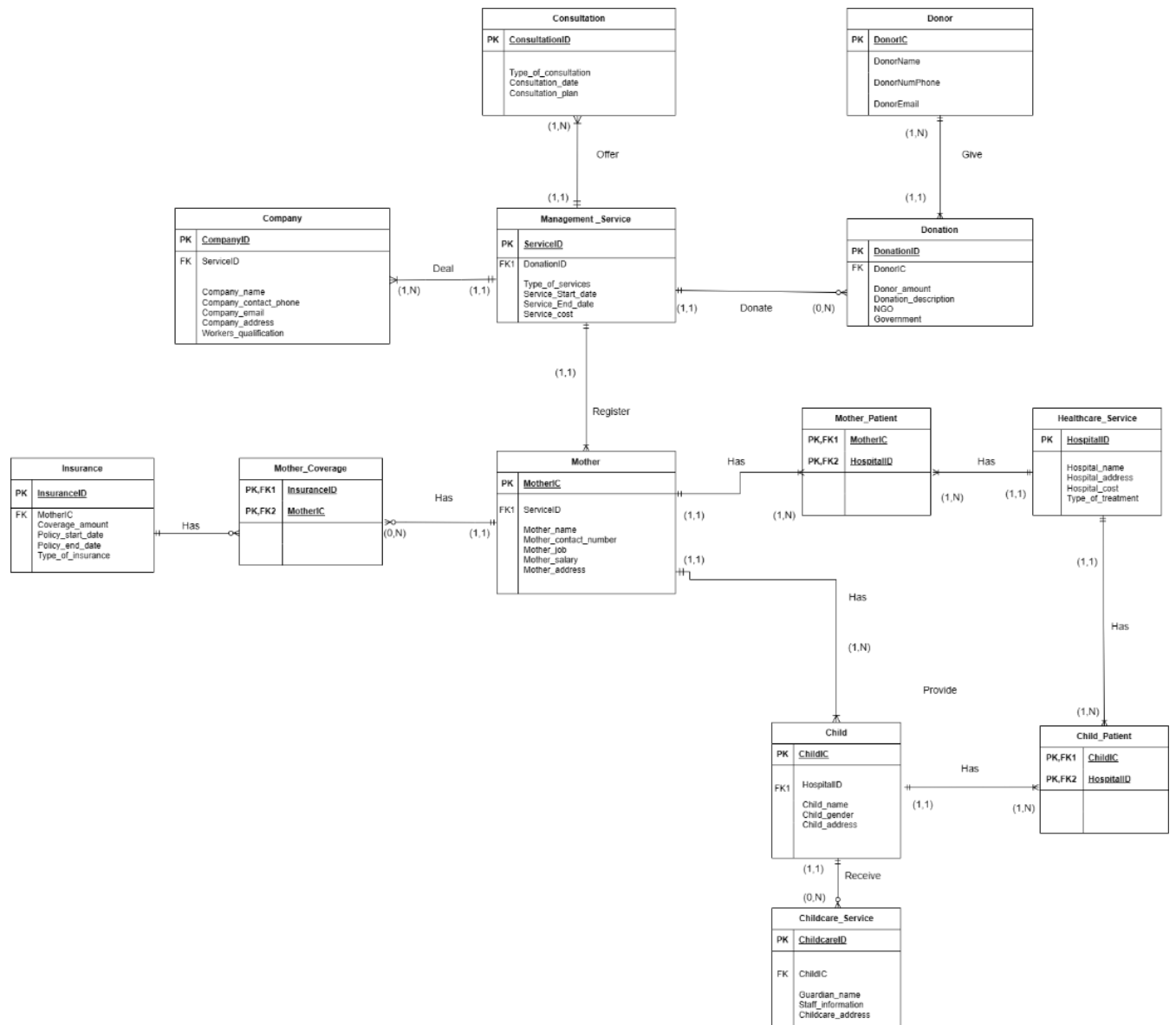
Management_Service PK: ServiceID	1:N	Mother PK: MotherIC FK: ServiceID	<ul style="list-style-type: none"> Management service can accept the registration of one or many mothers.
Mother PK: MotherIC FK: ServiceID	1:1	Management_Service PK: ServiceID FK1: DonationID	<ul style="list-style-type: none"> Each mother can register with only one management service.
Donation PK: DonationID FK: DonorIC	1:1	Management service PK: ServiceID FK: DonationID	<ul style="list-style-type: none"> Each donation can donate to only one management service.
Management_Service PK:ServiceID FK:DonationID	0:N	Donation PK:DonationID FK:DonorIC	<ul style="list-style-type: none"> Each management service can receive zero or many donation.

Management_Service PK: ServiceID	1:N	Company PK: CompanyID FK: ServiceID	<ul style="list-style-type: none"> Management services associated with one or many companies.
Company PK:CompanyID FK:ServiceID	1:1	Management_Service PK: ServiceID FK1:DonationID	<ul style="list-style-type: none"> Each company was associated with only one management service.
Management_Service PK: ServiceID FK1: DonationID	1:N	Consultation PK: Consultation_ID	<ul style="list-style-type: none"> Each management service offers one or many consultations.

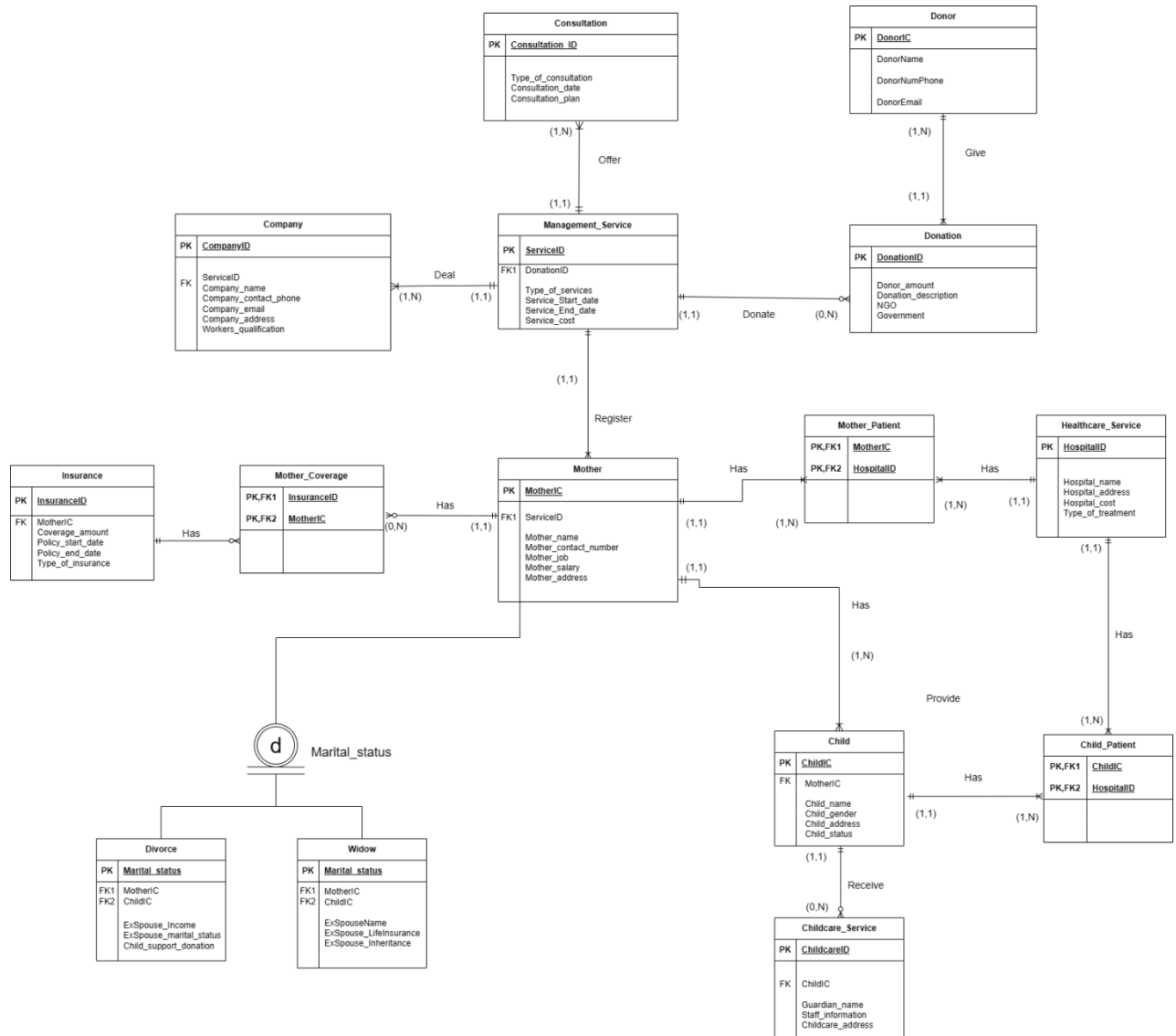
Consultation PK:ConsultationID	1:1	Management_Service PK:ServiceID FK1:DonationID	<ul style="list-style-type: none"> Each consultation can be offered by only one management service.
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4.0 ERD AND EERD

4.1 ERD



4.2 EERD



5.0 SQL

CREATE TABLES:

CREATE DATABASE:

```
create database MotherCare;
```

```
show databases;
```

```
use MotherCare;
```

SHOW TABLES;

```
create table CONSULTATION
```

```
(
```

```
Consultation_ID varchar (10) not null primary key,
```

```
Type_of_consultation varchar (50),
```

```
Consultation_date date,
```

```
Consultation_plan varchar (40)
```

```
);
```

```
create table DONOR
```

```
(
```

```
DonorIC varchar (25) not null primary key,
```

```
DonorName varchar (30),
```

```
DonorNumPhone varchar (15),
```

```
DonorEmail varchar (50)
```

```
);
```

```
create table DONATION
```

```
(
```

DonationID varchar (10) not null primary key,
Donor_amount varchar (10),
Donation_description varchar (50),
NGO varchar (30),
Goverment varchar (20),
DonorIC varchar (20),
Foreign Key (DonorIC) references DONOR (DonorIC)
);

create table MANAGEMENT_SERVICE
(
ServiceID varchar (10) not null primary key,
DonationID varchar (10),
Type_of_services varchar (30),
Service_Start_date date,
Service_End_date date,
Service_cost varchar (50),
foreign key (DonationID) references Donation (DonationID)
);

create table COMPANY
(
CompanyID varchar (10) not null primary key,
ServiceID varchar (20),
Company_name varchar (30),
Company_contact_phone varchar (15),
Company_email varchar (50),
Company_address varchar (100),
Workers_qualification varchar (50),

foreign key (ServiceID) references MANAGEMENT_SERVICE (ServiceID)
);

```
create table HEALTHCARE_SERVICE  
(  
HospitalID varchar (10) not null primary key,  
Hospital_name varchar (30),  
Hospital_address varchar (40),  
Hospital_cost varchar (10),  
Type_of_treatment varchar (30)  
);
```

```
create table MOTHER  
(  
MotherIC varchar (20) not null primary key,  
ServiceID varchar (20),  
Mother_name varchar (50),  
Mother_contact_number varchar (20),  
Mother_job varchar (20),  
Mother_salary varchar (10),  
Mother_address varchar (40),  
foreign key (ServiceID) references MANAGEMENT_SERVICE (ServiceID)  
);
```

```
create table CHILD  
(  
ChildIC varchar (20) not null primary key,  
MotherIC varchar (20),
```

```
Child_name varchar (30),  
Child_gender varchar (10),  
Child_address varchar (30),  
Child_status varchar (10),  
foreign key (MotherIC) references Mother (MotherIC)  
);
```

```
create table CHILDCARE_SERVICE  
(  
ChildcareID varchar (10) not null primary key,  
ChildIC varchar (20),  
Staff_information varchar (50),  
Guardian_name varchar (30),  
Childcare_address varchar (50),  
Foreign key (ChildIC) references Child (ChildIC)  
);
```

```
create table INSURANCE  
(  
InsuranceID varchar (10) not null primary key,  
MotherIC varchar (20),  
Coverage_amount varchar (30),  
Policy_start_date date,  
Policy_end_date date,  
Type_of_insurance varchar (40),  
foreign key (MotherIC) references Mother (MotherIC)  
);
```

```
CREATE TABLE MOTHER_COVERAGE (
```

```
MotherIC varchar (15),
InsuranceID varchar (10),
PRIMARY KEY (InsuranceID, MotherIC),
FOREIGN KEY (InsuranceID) REFERENCES INSURANCE (InsuranceID),
FOREIGN KEY (MotherIC) REFERENCES MOTHER (MotherIC)
);
```

```
CREATE TABLE MOTHER_PATIENT (
MotherIC varchar (15),
HospitalID varchar (10),
PRIMARY KEY (HospitalID, MotherIC),
FOREIGN KEY (HospitalID) REFERENCES HEALTHCARE_SERVICE (HospitalID),
FOREIGN KEY (MotherIC) REFERENCES MOTHER (MotherIC)
);
```

```
CREATE TABLE CHILD_PATIENT (
ChildIC varchar (20),
HospitalID varchar (10),
PRIMARY KEY (HospitalID, ChildIC),
FOREIGN KEY (HospitalID) REFERENCES HEALTHCARE_SERVICE (HospitalID),
FOREIGN KEY (ChildIC) REFERENCES CHILD (ChildIC)
);
```

6.0

INSERT VALUES:

CONSULTATION

insert into CONSULTATION values

('CS1', 'Antenatal Checkup', '2023-01-05', 'Monthly checkups'),

('CS2', 'Postnatal Checkup', '2023-02-10', 'Follow-up appointments'),

('CS3', 'Pediatric Consultation', '2023-03-15', 'Vaccination schedule'),

('CS4', 'Gynecological Consultation', '2023-04-20', 'Women health check'),

('CS5', 'General Health Checkup', '2023-05-25', 'Routine health assessment'),

('CS6', 'Maternal Nutrition Counseling', '2023-06-30', 'Diet and nutrition advice'),

('CS7', 'Mental Health Counseling', '2023-07-05', 'Emotional well-being support'),

('CS8', 'Family Planning Consultation', '2023-08-10', 'Reproductive health guidance'),

('CS9', 'Dental Checkup', '2023-09-15', 'Oral health examination'),

('CS10', 'Eye Examination', '2023-10-20', 'Vision testing'),

('CS11', 'Speech Therapy', '2023-11-25', 'Speech and language improvement'),

('CS12', 'Occupational Therapy', '2023-12-30', 'Skills development'),

('CS13', 'Physiotherapy', '2024-01-05', 'Physical rehabilitation'),

('CS14', 'Nutritional Consultation', '2024-02-10', 'Balanced diet planning'),

('CS15', 'Wellness Checkup', '2024-03-15', 'Comprehensive health assessment');

DONOR

insert into DONOR values

('960101-14-1234', 'Ahmad Bin Abu', '012-3456789', 'ahmad.abu@gmail.com'),

('960202-14-5678', 'Siti Binti Hamzah', '019-8765432', 'siti.hamzah@yahoo.com'),

('960303-14-9012', 'Razak Bin Khaulid', '017-9876543', 'razak.khaulid@gmail.com'),

('960404-14-3456', 'Norazizah Binti Afiq', '014-5678901', 'norazizah.afiq@yahoo.com'),

('960505-14-6789', 'Fatimah Binti Hasif', '016-7890123', 'fatimah.hasif@gmail.com'),

('960606-14-9012', 'Zainab Binti Rosyam', '013-1234567', 'zainab.rosyam@yahoo.com'),

('960707-14-2345', 'Hassan Bin Noor', '018-2345678', 'hassan.noor@gmail.com'),

('960808-14-5678', 'Noraini Binti Fezrul', '019-3456789', 'noraini.fezrul@yahoo.com'),

('960909-14-9012', 'Ali Bin Khan', '011-4567890', 'ali.khan@gmail.com'),

('961010-14-3456', 'Salmah Binti Donori', '016-5678901', 'salmah.donori@yahoo.com'),

('961111-14-6789', 'Hamid Bin Zainal', '014-6789012', 'hamid.zainal@gmail.com'),

('961212-14-9012', 'Zainal Bin Yassin', '017-7890123', 'zainal.yassin@yahoo.com'),

('961313-14-2345', 'Siti Aishah Binti Ali', '012-8901234', 'siti_aishah.ali@gmail.com'),

('961414-14-5678', 'Abdul Rahman Bin Sofian', '019-9012345', 'abdul_rahman.sofian@yahoo.com'),

('961515-14-9012', 'Nurul Huda Binti Rizan', '016-0123456', 'nurul_huda.rizan@gmail.com');

DONATION

insert into DONATION values

('D1', '1000', 'Maternity Care Fund', 'Save Mothers NGO', 'PeKa B40', '960101-14-1234'),

('D2', '500', 'Child Vaccination Program', 'Child Health Foundation', 'mySalam', '960202-14-5678'),

('D3', '1500', 'Medical Support for Mothers', 'Healthcare Heroes', 'STR', '960303-14-9012'),

('D4', '800', 'Gynecological Services', 'Women Health Organization', 'BKK', '960404-14-3456'),

('D5', '1200', 'Pediatric Care', 'Child Wellness Association', 'Mercy Malaysia', '960505-14-6789'),

('D6', '700', 'Family Planning Initiative', 'Repro Health Foundation', 'BTB', '960606-14-9012'),

('D7', '950', 'Rehabilitation Programs', 'Ability Foundation', 'BPT', '960707-14-2345'),

('D8', '600', 'Dental Health Campaign', 'Smile Foundation', 'BWE', '960808-14-5678'),

('D9', '300', 'Eye Care Program', 'Vision for All', 'BA', '960909-14-9012'),

('D10', '550', 'Nutrition Support', 'Healthy Living NGO', 'BAP', '961010-14-3456'),

('D11', '750', 'Mental Health Awareness', 'Mindful Society', 'BLP', '961111-14-6789'),

('D12', '1100', 'Child Education Fund', 'Education Empowerment', 'GP', '961212-14-9012'),

('D13', '800', 'Psychological Support', 'Mind Matters', 'BAT', '961313-14-2345'),

('D14', '700', 'Speech Therapy Initiative', 'Speak Up Foundation', 'TBS', '961414-14-5678'),

('D15', '900', 'Occupational Therapy Program', 'Ability Beyond Limits', 'NADMA', '961515-14-9012');

MANAGEMENT SERVICE

insert into MANAGEMENT_SERVICE values

('M1', 'D1', 'Medical Checkup', '2023-01-01', '2023-01-15', '500'),

('M2', 'D2', 'Maternity Care', '2023-02-01', '2023-02-15', '1200'),

('M3', 'D3', 'Child Vaccination', '2023-03-01', '2023-03-15', '800'),

('M4', 'D4', 'Antenatal Checkup', '2023-04-01', '2023-04-15', '600'),

('M5', 'D5', 'Postnatal Checkup', '2023-05-01', '2023-05-15', '700'),

('M6', 'D6', 'General Checkup', '2023-06-01', '2023-06-15', '900'),

('M7', 'D7', 'Gynecological Services', '2023-07-01', '2023-07-15', '750'),

('M8', 'D8', 'Pediatric Care', '2023-08-01', '2023-08-15', '1100'),

('M9', 'D9', 'Dental Checkup', '2023-09-01', '2023-09-15', '400'),

('M10', 'D10', 'Eye Examination', '2023-10-01', '2023-10-15', '300'),

('M11', 'D11', 'Maternal Nutrition Counseling', '2023-11-01', '2023-11-15', '550'),

('M12', 'D12', 'Physiotherapy', '2023-12-01', '2023-12-15', '950'),

('M13', 'D13', 'Psychological Counseling', '2024-01-01', '2024-01-15', '800'),

('M14', 'D14', 'Speech Therapy', '2024-02-01', '2024-02-15', '700'),

('M15', 'D15', 'Occupational Therapy', '2024-03-01', '2024-03-15', '900');

COMPANY

insert into COMPANY values

('C1', 'M1', 'HealthTech Solutions', '012-3456789', 'info@healthtech.com', 'Suite 101, Medical Plaza, Jalan Medik, Kuala Lumpur', 'Medical Degree'),

('C2', 'M2', 'ChildCare Innovations', '019-8765432', 'info@childcareinnovations.com', 'Block B, Kids Haven, Jalan Joyful, Penang', 'Early Childhood Education Certification'),

('C3', 'M3', 'DentalCare Experts', '017-9876543', 'info@dentalcareexperts.com', 'Dental Towers, Jalan Smile, Johor Bahru', 'Dental Degree'),

('C4', 'M4', 'VisionCare Professionals', '016-5432109', 'info@visioncarepro.com', 'Visionary Place, Jalan ClearSight, Kuala Lumpur', 'Optometry Degree'),

('C5', 'M5', 'TechSolutions Hub', '011-2345678', 'info@techsolutionshub.com', 'Innovation Center, Jalan TechPark, Penang', 'Information Technology Certification'),

('C6', 'M6', 'NutriWellness Group', '013-3456789', 'info@nutriwellness.com', 'Healthful House, Jalan NutriFit, Johor Bahru', 'Nutrition Certification'),

('C7', 'M7', 'SafetyGuard Systems', '018-4567890', 'info@safetyguard.com', 'Guardian Tower, Jalan SafeZone, Kuala Lumpur', 'Occupational Safety Certification'),

('C8', 'M8', 'EduTech Solutions', '014-5678901', 'info@edutechsolutions.com', 'Learning Center, Jalan EduHub, Penang', 'Education Degree'),

('C9', 'M9', 'LawFirm Associates', '015-6789012', 'info@lawfirm.com', 'Legal Plaza, Jalan LegalEase, Johor Bahru', 'Law Degree'),

('C10', 'M10', 'GreenScape Builders', '016-7890123', 'info@greenscapebuilders.com', 'Eco Towers, Jalan GreenPark, Kuala Lumpur', 'Civil Engineering Degree'),

('C11', 'M11', 'TechInnovate Labs', '017-8901234', 'info@techinnovate.com', 'Innovation Hub, Jalan TechX, Penang', 'Engineering Degree'),

('C12', 'M12', 'FineDine Catering', '018-9012345', 'info@finedinecatering.com', 'Gourmet Avenue, Jalan Tasty, Johor Bahru', 'Culinary Certification'),

('C13', 'M13', 'CreativeDesign Studio', '019-0123456', 'info@creativedesign.com', 'Artistic Block, Jalan Imagination, Kuala Lumpur', 'Design Certification'),

('C14', 'M14', 'FinancialAdvise Consultants', '012-3456789', 'info@financialadvise.com', 'Money Tower, Jalan Finance, Penang', 'Finance Degree'),

('C15', 'M15', 'EventMasters Planners', '011-2345678', 'info@eventmasters.com', 'Celebration Place, Jalan Eventful, Johor Bahru', 'Event Management Certification');

HEALTHCARE SERVICE

insert into HEALTHCARE_SERVICE values

('H1', 'City Medical Center', '456 Jalan XYZ, Kuala Lumpur', '2000', 'Maternity'),

('H2', 'Suburb Hospital', '789 Jalan LMN, Penang', '1500', 'Pediatric'),

('H3', 'Rural Clinic', '101 Jalan PQR, Johor Bahru', '800', 'General Checkup'),

('H4','Family Health Center', '234 Jalan DEF, Kuala Lumpur', 1200, 'Family Medicine'),

('H5', 'Child Wellness Clinic', '567 Jalan GHI, Penang', '900', 'Child Health'),

('H6', 'Women Health Clinic', '890 Jalan JKL, Johor Bahru', '1000', 'Gynecology'),

('H7', 'Mental Wellness Center', '345 Jalan MNO, Kuala Lumpur', '1800', 'Mental Health'),

('H8','Dental Care Hub', '678 Jalan PQR, Penang', '600', 'Dental Services'),

('H9','Eye Care Institute', '901 Jalan STU, Johor Bahru', '500', 'Ophthalmology'),

('H10', 'Rehabilitation Center', '123 Jalan VWX, Kuala Lumpur', '1500', 'Rehabilitation'),

('H11', 'Child Education Clinic', '234 Jalan YZA, Penang', '1300', 'Education Support'),

('H12', 'Psychological Services Center', '456 Jalan BCD, Johor Bahru', '1600', 'Psychology'),

('H13', 'Speech Therapy Institute', '567 Jalan EFG, Kuala Lumpur', '1100', 'Speech Therapy'),

('H14', 'Occupational Therapy Center', '789 Jalan HIJ, Penang', '1200', 'Occupational Therapy'),

('H15','Wellness Clinic', '890 Jalan KLM, Johor Bahru', '1400', 'Comprehensive Wellness');

MOTHER

insert into MOTHER values

('990101-08-1234', 'M1', 'Aminah Binti Ahmad', '012-3456789', 'Accountant', '4000', '123 Jalan ABC, Kuala Lumpur'),

('980202-02-5678','M2','Siti Fatimah Binti Mohd','019-8765432','Teacher','3500','456 Jalan XYZ, Penang'),

('970303-03-9012','M3','Maisarah Binti Azizi','017-9876543','Engineer','6000','789 Jalan LMN, Johor Bahru'),

('900404-04-3456','M4','Norazizah Binti Ali','014-5678901','Nurse','4500','234 Jalan DEF, Kuala Lumpur'),

('960505-06-6788','M5','Laila Binti Amir','016-7890123','Technician','5500','567 Jalan GHI, Penang'),

('950606-05-0122','M6','Zainab Binti Yusof','013-8901234','Homemaker','3000','890 Jalan JKL, Johor Bahru'),

('940707-07-4568','M7','Asiah Binti Abdul','011-2345678','Lawyer','7000','345 Jalan MNO, Kuala Lumpur'),

('950808-09-8902','M8','Noraini Binti Ali','018-3456789','Business Owner','8000','678 Jalan PQR, Penang'),

('940909-08-2346','M9','Alia Binti Andi','015-6789012','Teacher','3500','901 Jalan STU, Johor Bahru'),

('921010-11-6786','M10','Zakaria Bin Rahman','017-8901234','Engineer','6000','123 Jalan VWX, Kuala Lumpur'),

('931111-10-0124','M11','Norlia Binti Mohd','013-2345678','Doctor','9000','234 Jalan YZA, Penang'),

('921212-12-4562','M12','Husna Binti Kamarul','014-5678901','Business Analyst','5500','456 Jalan BCD, Johor Bahru'),

('971013-10-8908','M13','Yasmin Binti Mustafa','016-6789012','Psychologist','7500','567 Jalan EFG, Kuala Lumpur'),

('960514-13-2348', 'M14', 'Najihah Binti Kamil', '018-8901234', 'Sales Manager', '6800', '789 Jalan HIJ, Penang'),

('911115-14-6786', 'M15', 'Zahirah Binti Yusof', '019-0123456', 'Researcher', '5000', '890 Jalan KLM, Johor Bahru');

CHILD

INSERT INTO CHILD VALUES

('080101-14-5673', '990101-08-1234', 'Ali Bin Amin', 'Male', '456 Jalan XYZ, Kuala Lumpur', 'Healthy'),

('090202-14-9012', '980202-02-5678', 'Fatimah Binti Dollah', 'Female', '789 Jalan LMN, Penang', 'Healthy'),

('100303-02-3455', '970303-03-9012', 'Ahmad Bin Razak', 'Male', '101 Jalan PQR, Johor Bahru', 'Healthy'),

('110404-03-5678', '900404-04-3456', 'Nurul Aisha Binti Ali', 'Female', '234 Jalan DEF, Kuala Lumpur', 'Healthy'),

('120505-04-9017', '960505-06-6788', 'Mohd Ali Bin Ahmad', 'Male', '567 Jalan GHI, Penang', 'Healthy'),

('110606-11-2346', '950606-05-0122', 'Norazizah Binti Hassan', 'Female', '890 Jalan JKL, Johor Bahru', 'Healthy'),

('120707-12-5673', '940707-07-4568', 'Hassan Bin Abdullah', 'Male', '345 Jalan MNO, Kuala Lumpur', 'Healthy'),

('150808-08-9012', '950808-09-8902', 'Noraini Binti Ali', 'Female', '678 Jalan PQR, Penang', 'Healthy'),

('160909-07-3453', '940909-08-2346', 'Ali Bin Hussein', 'Male', '901 Jalan STU, Johor Bahru', 'Healthy'),

('181010-06-5678', '921010-11-6786', 'Salmah Binti Hamid', 'Female', '112 Jalan VWX, Kuala Lumpur', 'Healthy'),

('201111-14-9013', '931111-10-0124', 'Hamid Bin Ismail', 'Male', '223 Jalan YZA, Penang', 'Healthy'),

('171212-06-2345', '921212-12-4562', 'Zainal Bin Ahmad', 'Male', '334 Jalan BCD, Johor Bahru', 'Healthy'),

('151213-09-5678', '971013-10-8908', 'Siti Aishah Binti Abdul', 'Female', '445 Jalan EFG, Kuala Lumpur', 'Healthy'),

('151014-13-9015', '960514-13-2348', 'Abdul Rahman Bin Ismail', 'Male', '556 Jalan HIJ, Penang', 'Healthy'),

('101115-14-2346', '911115-14-6786', 'Nurul Huda Binti Zainal', 'Female', '667 Jalan KLM, Johor Bahru', 'Healthy');

CHILDCARE SERVICE

insert into CHILDCARE_SERVICE values

('CR1', '080101-14-5673', '920101-14-1234', 'Ali Bin Abu', '446 Jalan XYZ, Kuala Lumpur'),

('CR2', '090202-14-9012', '930202-13-5678', 'Fatimah Binti Wahid', '785 Jalan LMN, Penang'),

('CR3', '100303-02-3455', '950303-12-9012', 'Ahmad Bin Razak', '109 Jalan PQR, Johor Bahru'),

('CR4', '110404-03-5678', '920404-10-3456', 'Nurul Aisha Binti Ali', '231 Jalan DEF, Kuala Lumpur'),

('CR5', '120505-04-9017', '910505-14-6789', 'Mohd Ali Bin Ahmad', '577 Jalan GHI, Penang'),

('CR6', '110606-11-2346', '900606-02-9012', 'Norazizah Binti Hassan', '880 Jalan JKL, Johor Bahru'),

('CR7', '120707-12-5673', '940707-02-2345', 'Hassan Bin Hasbullah', '335 Jalan MNO, Kuala Lumpur'),

('CR8', '150808-08-9012', '950808-06-5678', 'Noraini Binti Ali', '688 Jalan PQR, Penang'),

('CR9', '160909-07-3453', '920909-14-9012', 'Ali Bin Hussein', '911 Jalan STU, Johor Bahru'),

('CR10', '181010-06-5678', '931010-07-3456', 'Salmah Binti Hamid', '113 Jalan VWX, Kuala Lumpur'),

('CR11', '201111-14-9013', '931111-14-6789', 'Hamid Bin Ismail', '229 Jalan YZA, Penang'),

('CR12', '171212-06-2345', '901212-14-9012', 'Zainal Bin Ahmad', '330 Jalan BCD, Johor Bahru'),

('CR13', '151213-09-5678', '910506-12-2345', 'Siti Aishah Binti Abdul Ali', '442 Jalan EFG, Kuala Lumpur'),

('CR14', '151014-13-9015', '950904-08-5678', 'Abdul Rahman Bin Ismail', '554 Jalan HIJ, Penang'),

('CR15', '101115-14-2346', '940802-06-9012', 'Nurul Huda Binti Zainal', '663 Jalan KLM, Johor Bahru');

INSURANCE

INSERT INTO INSURANCE VALUES

('I1', '990101-08-1234', '3000', '2023-01-01', '2024-01-01', 'Maternity Coverage'),

('I2', '980202-02-5678', '2000', '2023-02-01', '2024-02-01', 'Child Health Coverage'),

('I3', '970303-03-9012', '1000', '2023-03-01', '2024-03-01', 'General Health Insurance'),

('I4', '900404-04-3456', '2500', '2023-04-01', '2024-04-01', 'Dental Coverage'),

('I5', '960505-06-6788', '1800', '2023-05-01', '2024-05-01', 'Vision Care'),

('I6', '950606-05-0122', '3500', '2023-06-01', '2024-06-01', 'Family Health Plan'),

('I7', '940707-07-4568', '1200', '2023-07-01', '2024-07-01', 'Critical Illness Insurance'),

('I8', '950808-09-8902', '2800', '2023-08-01', '2024-08-01', 'Accidental Coverage'),

('I9', '940909-08-2346', '2000', '2023-09-01', '2024-09-01', 'Travel Insurance'),

('I10', '921010-11-6786', '4000', '2023-10-01', '2024-10-01', 'Life Insurance'),

('I11', '931111-10-0124', '1500', '2023-11-01', '2024-11-01', 'Disability Insurance'),

('I12', '921212-12-4562', '2200', '2023-12-01', '2024-12-01', 'Income Protection'),

('I13', '971013-10-8908', '3000', '2024-01-01', '2025-01-01', 'Retirement Savings Plan'),

('I14', '960514-13-2348', '1800', '2024-02-01', '2025-02-01', 'Cancer Insurance'),

('I15', '911115-14-6786', '2500', '2024-03-01', '2025-03-01', 'Personal Accident Coverage');

Show tables;

Result Grid		Filter Rows:
	Tables_in_mothercare	
▶	child	
	child_patient	
	childcare_service	
	company	
	consultation	
	donation	
	donor	
	healthcare_service	
	insurance	
	management_service	
	mother	
	mother_coverage	
	mother_patient	

PRINT VALUES:

SELECT * FROM CONSULTATION;

Result Grid		Filter Rows:	Edit:	Export/Import:	Wr
	Consultation_ID	Type_of_consultation	Consultation_date	Consultation_plan	
▶	CS1	Antenatal Checkup	2023-01-05	Monthly checkups	
	CS10	Eye Examination	2023-10-20	Vision testing	
	CS11	Speech Therapy	2023-11-25	Speech and language improvement	
	CS12	Occupational Therapy	2023-12-30	Skills development	
	CS13	Physiotherapy	2024-01-05	Physical rehabilitation	
	CS14	Nutritional Consultation	2024-02-10	Balanced diet planning	
	CS15	Wellness Checkup	2024-03-15	Comprehensive health assessment	
	CS2	Postnatal Checkup	2023-02-10	Follow-up appointments	
	CS3	Pediatric Consultation	2023-03-15	Vaccination schedule	
	CS4	Gynecological Consultation	2023-04-20	Women health check	
	CS5	General Health Checkup	2023-05-25	Routine health assessment	
	CS6	Maternal Nutrition Counse...	2023-06-30	Diet and nutrition advice	
	CS7	Mental Health Counseling	2023-07-05	Emotional well-being support	
	CS8	Family Planning Consultation	2023-08-10	Reproductive health guidance	
	CS9	Dental Checkup	2023-09-15	Oral health examination	
•	NULL	NULL	NULL	NULL	

SELECT * FROM COMPANY;

Result Grid						
Filter Rows:						
Edit: Export/Import: Wrap Cell Contents:						
CompanyID	ServiceID	Company_name	Company_contact_phone	Company_email	Company_address	Workers_qualification
C1	M1	HealthTech Solutions	012-3456789	info@healthtech.com	Suite 101, Medical Plaza, Jalan Medik, Kuala Lu...	Medical Degree
C10	M10	GreenScape Builders	016-7890123	info@greenscapebuilders.com	Eco Towers, Jalan GreenPark, Kuala Lumpur	Civil Engineering Degree
C11	M11	TechInnovate Labs	017-8901234	info@techinnovate.com	Innovation Hub, Jalan TechT, Penang	Engineering Degree
C12	M12	FineDine Catering	018-9012345	info@finedinecatering.com	Gourmet Avenue, Jalan Tasty, Johor Bahru	Culinary Certification
C13	M13	CreativeDesign Studio	019-0123456	info@creativedesign.com	Artistic Block, Jalan Imagination, Kuala Lumpur	Design Certification
C14	M14	FinancialAdvise Consultants	012-3456789	info@financialadvise.com	Money Tower, Jalan Finance, Penang	Finance Degree
C15	M15	EventMasters Planners	011-2345678	info@eventmasters.com	Celebration Place, Jalan Eventful, Johor Bahru	Event Management Certification
C2	M2	ChildCare Innovations	019-8765432	info@childcareinnovations.com	Block B, Kids Haven, Jalan Joyful, Penang	Early Childhood Education Certification
C3	M3	DentalCare Experts	017-9876543	info@dentalcareexperts.com	Dental Towers, Jalan Smile, Johor Bahru	Dental Degree
C4	M4	VisionCare Professionals	016-5432109	info@visioncarepro.com	Visionary Place, Jalan ClearSight, Kuala Lumpur	Optometry Degree
C5	M5	TechSolutions Hub	011-2345678	info@techsolutionshub.com	Innovation Center, Jalan TechPark, Penang	Information Technology Certification
C6	M6	NutriWellness Group	013-3456789	info@nutriwellness.com	Healthful House, Jalan NutriFit, Johor Bahru	Nutrition Certification
C7	M7	SafetyGuard Systems	018-4567890	info@safetyguard.com	Guardian Tower, Jalan SafeZone, Kuala Lumpur	Occupational Safety Certification
C8	M8	EduTech Solutions	014-5678901	info@edutechsolutions.com	Learning Center, Jalan EduHub, Penang	Education Degree
C9	M9	LawFirm Associates	015-6789012	info@lawfirm.com	Legal Plaza, Jalan LegalEase, Johor Bahru	Law Degree
NULL	NULL	NULL	NULL	NULL	NULL	NULL

SELECT * FROM MANAGEMENT_SERVICE;

Result Grid						
Filter Rows:						
Edit: Export/Import: Wrap Cell Center						
ServiceID	DonationID	Type_of_services	Service_Start_date	Service_End_date	Service_cost	
M1	D1	Medical Checkup	2023-01-01	2023-01-15	500	
M10	D10	Eye Examination	2023-10-01	2023-10-15	300	
M11	D11	Maternal Nutrition Counseling	2023-11-01	2023-11-15	550	
M12	D12	Physiotherapy	2023-12-01	2023-12-15	950	
M13	D13	Psychological Counseling	2024-01-01	2024-01-15	800	
M14	D14	Speech Therapy	2024-02-01	2024-02-15	700	
M15	D15	Occupational Therapy	2024-03-01	2024-03-15	900	
M2	D2	Maternity Care	2023-02-01	2023-02-15	1200	
M3	D3	Child Vaccination	2023-03-01	2023-03-15	800	
M4	D4	Antenatal Checkup	2023-04-01	2023-04-15	600	
M5	D5	Postnatal Checkup	2023-05-01	2023-05-15	700	
M6	D6	General Checkup	2023-06-01	2023-06-15	900	
M7	D7	Gynecological Services	2023-07-01	2023-07-15	750	
M8	D8	Pediatric Care	2023-08-01	2023-08-15	1100	
M9	D9	Dental Checkup	2023-09-01	2023-09-15	400	
NULL	NULL	NULL	NULL	NULL	NULL	

SELECT * FROM DONOR;

Result Grid				
Filter Rows:				
Edit: Export/Import:				
DonorIC	DonorName	DonorNumPhone	DonorEmail	
960101-14-1234	Ahmad Bin Abu	012-3456789	ahmad.abu@gmail.com	
960202-14-5678	Siti Binti Hamzah	019-8765432	siti.hamzah@yahoo.com	
960303-14-9012	Razak Bin Khaulid	017-9876543	razak.khaulid@gmail.com	
960404-14-3456	Norazizah Binti Afiq	014-5678901	norazizah.afiq@yahoo.com	
960505-14-6789	Fatimah Binti Hasif	016-7890123	fatimah.hasif@gmail.com	
960606-14-9012	Zainab Binti Rosyam	013-1234567	zainab.rosyam@yahoo.com	
960707-14-2345	Hassan Bin Noor	018-2345678	hassan.noor@gmail.com	
960808-14-5678	Noraini Binti Fezrul	019-3456789	noraini.fezrul@yahoo.com	
960909-14-9012	Ali Bin Khan	011-4567890	ali.khan@gmail.com	
961010-14-3456	Salmah Binti Donori	016-5678901	salmah.donori@yahoo.com	
961111-14-6789	Hamid Bin Zainal	014-6789012	hamid.zainal@gmail.com	
961212-14-9012	Zainal Bin Yassin	017-7890123	zainal.yassin@yahoo.com	
961313-14-2345	Siti Aishah Binti Ali	012-8901234	siti_aishah.ali@gmail.com	
961414-14-5678	Abdul Rahman Bin ...	019-9012345	abdul_rahman.sofian@yah...	
961515-14-9012	Nurul Huda Binti Rizan	016-0123456	nurul_huda.rizan@gmail.com	
NULL	NULL	NULL	NULL	

SELECT * FROM DONATION;

DonationID	Donor_amount	Donation_description	NGO	Goverment	DonorIC
D1	1000	Maternity Care Fund	Save Mothers NGO	PeKa B40	960101-14-1234
D10	550	Nutrition Support	Healthy Living NGO	BAP	961010-14-3456
D11	750	Mental Health Awareness	Mindful Society	BLP	961111-14-6789
D12	1100	Child Education Fund	Education Empowerment	GP	961212-14-9012
D13	800	Psychological Support	Mind Matters	BAT	961313-14-2345
D14	700	Speech Therapy Initiative	Speak Up Foundation	TBS	961414-14-5678
D15	900	Occupational Therapy Program	Ability Beyond Limits	NADMA	961515-14-9012
D2	500	Child Vaccination Program	Child Health Foundation	mySalam	960202-14-5678
D3	1500	Medical Support for Mothers	Healthcare Heroes	STR	960303-14-9012
D4	800	Gynecological Services	Women Health Organization	BKK	960404-14-3456
D5	1200	Pediatric Care	Child Wellness Association	Mercy Mal...	960505-14-6789
D6	700	Family Planning Initiative	Repro Health Foundation	BTB	960606-14-9012
D7	950	Rehabilitation Programs	Ability Foundation	BPT	960707-14-2345
D8	600	Dental Health Campaign	Smile Foundation	BWE	960808-14-5678
D9	300	Eye Care Program	Vision for All	BA	960909-14-9012
NULL	NULL	NULL	NULL	NULL	NULL

SELECT * FROM HEALTHCARE_SERVICE;

HospitalID	Hospital_name	Hospital_address	Hospital_cost	Type_of_treatment
H1	City Medical Center	456 Jalan XYZ, Kuala Lumpur	2000	Maternity
H10	Rehabilitation Center	123 Jalan VWX, Kuala Lumpur	1500	Rehabilitation
H11	Child Education Clinic	234 Jalan YZA, Penang	1300	Education Support
H12	Psychological Services Center	456 Jalan BCD, Johor Bahru	1600	Psychology
H13	Speech Therapy Institute	567 Jalan EFG, Kuala Lumpur	1100	Speech Therapy
H14	Occupational Therapy Center	789 Jalan HIJ, Penang	1200	Occupational Therapy
H15	Wellness Clinic	890 Jalan KLM, Johor Bahru	1400	Comprehensive Wellness
H2	Suburb Hospital	789 Jalan LMN, Penang	1500	Pediatric
H3	Rural Clinic	101 Jalan PQR, Johor Bahru	800	General Checkup
H4	Family Health Center	234 Jalan DEF, Kuala Lumpur	1200	Family Medicine
H5	Child Wellness Clinic	567 Jalan GHI, Penang	900	Child Health
H6	Women Health Clinic	890 Jalan JKL, Johor Bahru	1000	Gynecology
H7	Mental Wellness Center	345 Jalan MNO, Kuala Lumpur	1800	Mental Health
H8	Dental Care Hub	678 Jalan PQR, Penang	600	Dental Services
H9	Eye Care Institute	901 Jalan STU, Johor Bahru	500	Ophthalmology
NULL	NULL	NULL	NULL	NULL

SELECT * FROM CHILD;

ChildIC	MotherIC	Child_name	Child_gender	Child_address	Child_status
080101-14-5673	990101-08-1234	Ali Bin Amin	Male	456 Jalan XYZ, Kuala Lumpur	Healthy
090202-14-9012	980202-02-5678	Fatimah Binti Dollah	Female	789 Jalan LMN, Penang	Healthy
100303-02-3455	970303-03-9012	Ahmad Bin Razak	Male	101 Jalan PQR, Johor Bahru	Healthy
101115-14-2346	911115-14-6786	Nurul Huda Binti Zainal	Female	667 Jalan KLM, Johor Bahru	Healthy
110404-03-5678	900404-04-3456	Nurul Aisha Binti Ali	Female	234 Jalan DEF, Kuala Lumpur	Healthy
110606-11-2346	950606-05-0122	Norazizah Binti Hassan	Female	890 Jalan JKL, Johor Bahru	Healthy
120505-04-9017	960505-06-6788	Mohd Ali Bin Ahmad	Male	567 Jalan GHI, Penang	Healthy
120707-12-5673	940707-07-4568	Hassan Bin Abdullah	Male	345 Jalan MNO, Kuala Lumpur	Healthy
150808-08-9012	950808-09-8902	Noraini Binti Ali	Female	678 Jalan PQR, Penang	Healthy
151014-13-9015	960514-13-2348	Abdul Rahman Bin Ismail	Male	556 Jalan HIJ, Penang	Healthy
151213-09-5678	971013-10-8908	Siti Aishah Binti Abdul	Female	445 Jalan EFG, Kuala Lumpur	Healthy
160909-07-3453	940909-08-2346	Ali Bin Hussein	Male	901 Jalan STU, Johor Bahru	Healthy
171212-06-2345	921212-12-4562	Zainal Bin Ahmad	Male	334 Jalan BCD, Johor Bahru	Healthy
181010-06-5678	921010-11-6786	Salmah Binti Hamid	Female	112 Jalan VWX, Kuala Lumpur	Healthy
201111-14-9013	931111-10-0124	Hamid Bin Ismail	Male	223 Jalan YZA, Penang	Healthy
NULL	NULL	NULL	NULL	NULL	NULL

SELECT * FROM COMPANY;

	CompanyID	ServiceID	Company_name	Company_contact_phone	Company_email	Company_address	Workers_qualification
▶	C1	M1	HealthTech Solutions	012-3456789	info@healthtech.com	Suite 101, Medical Plaza, Jalan Medik, Kuala Lu...	Medical Degree
	C10	M10	GreenScape Builders	016-7890123	info@greenscapebuilders.com	Eco Towers, Jalan GreenPark, Kuala Lumpur	Civil Engineering Degree
	C11	M11	TechInnovate Labs	017-8901234	info@techinnovate.com	Innovation Hub, Jalan TechX, Penang	Engineering Degree
	C12	M12	FineDine Catering	018-9012345	info@finedinecatering.com	Gourmet Avenue, Jalan Tasty, Johor Bahru	Culinary Certification
	C13	M13	CreativeDesign Studio	019-0123456	info@creativedesign.com	Artistic Block, Jalan Imagination, Kuala Lumpur	Design Certification
	C14	M14	FinancialAdvise Consultants	012-3456789	info@financialadvise.com	Money Tower, Jalan Finance, Penang	Finance Degree
	C15	M15	EventMasters Planners	011-2345678	info@eventmasters.com	Celebration Place, Jalan Eventful, Johor Bahru	Event Management Certification
	C2	M2	ChildCare Innovations	019-8765432	info@childcareinnovations.com	Block B, Kids Haven, Jalan Joyful, Penang	Early Childhood Education Certification
	C3	M3	DentalCare Experts	017-9876543	info@dentalcareexperts.com	Dental Towers, Jalan Smile, Johor Bahru	Dental Degree
	C4	M4	VisionCare Professionals	016-5432109	info@visioncarepro.com	Visionary Place, Jalan ClearSight, Kuala Lumpur	Optometry Degree
	C5	M5	TechSolutions Hub	011-2345678	info@techsolutionshub.com	Innovation Center, Jalan TechPark, Penang	Information Technology Certification
	C6	M6	NutriWellness Group	013-3456789	info@nutriwellness.com	Healthful House, Jalan NutriFit, Johor Bahru	Nutrition Certification
	C7	M7	SafetyGuard Systems	018-4567890	info@safetyguard.com	Guardian Tower, Jalan SafeZone, Kuala Lumpur	Occupational Safety Certification
	C8	M8	EduTech Solutions	014-5678901	info@edutechsolutions.com	Learning Center, Jalan EduHub, Penang	Education Degree
	C9	M9	LawFirm Associates	015-6789012	info@lawfirm.com	Legal Plaza, Jalan LegalEase, Johor Bahru	Law Degree
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL

SELECT * FROM CHILDCARE_SERVICE;

	ChildcareID	ChildIC	Staff_information	Guardian_name	Childcare_address
▶	CR1	080101-14-5673	920101-14-1234	Ali Bin Abu	446 Jalan XYZ, Kuala Lumpur
	CR10	181010-06-5678	931010-07-3456	Salmah Binti Hamid	113 Jalan VWX, Kuala Lumpur
	CR11	201111-14-9013	931111-14-6789	Hamid Bin Ismail	229 Jalan YZA, Penang
	CR12	171212-06-2345	901212-14-9012	Zainal Bin Ahmad	330 Jalan BCD, Johor Bahru
	CR13	151213-09-5678	910506-12-2345	Siti Aishah Binti Abdul Ali	442 Jalan EFG, Kuala Lumpur
	CR14	151014-13-9015	950904-08-5678	Abdul Rahman Bin Ismail	554 Jalan HIJ, Penang
	CR15	101115-14-2346	940802-06-9012	Nurul Huda Binti Zainal	663 Jalan KLM, Johor Bahru
	CR2	090202-14-9012	930202-13-5678	Fatimah Binti Wahid	785 Jalan LMN, Penang
	CR3	100303-02-3455	950303-12-9012	Ahmad Bin Razak	109 Jalan PQR, Johor Bahru
	CR4	110404-03-5678	920404-10-3456	Nurul Aisha Binti Ali	231 Jalan DEF, Kuala Lumpur
	CR5	120505-04-9017	910505-14-6789	Mohd Ali Bin Ahmad	577 Jalan GHI, Penang
	CR6	110606-11-2346	900606-02-9012	Norazizah Binti Hassan	880 Jalan JKL, Johor Bahru
	CR7	120707-12-5673	940707-02-2345	Hassan Bin Hasbullah	335 Jalan MNO, Kuala Lumpur
	CR8	150808-08-9012	950808-06-5678	Noraini Binti Ali	688 Jalan PQR, Penang
	CR9	160909-07-3453	920909-14-9012	Ali Bin Hussein	911 Jalan STU, Johor Bahru
•	NULL	NULL	NULL	NULL	NULL

SELECT * FROM MOTHER;

	MotherIC	ServiceID	Mother_name	Mother_contact_number	Mother_job	Mother_salary	Mother_address
▶	900404-04-3456	M4	Norazizah Binti Ali	014-5678901	Nurse	4500	234 Jalan DEF, Kuala Lumpur
	911115-14-6786	M15	Zahirah Binti Yusof	019-0123456	Researcher	5000	890 Jalan KLM, Johor Bahru
	921010-11-6786	M10	Zakaria Bin Rahman	017-8901234	Engineer	6000	123 Jalan VWX, Kuala Lumpur
	921212-12-4562	M12	Husna Binti Kamarul	014-5678901	Business Analyst	5500	456 Jalan BCD, Johor Bahru
	931111-10-0124	M11	Norlia Binti Mohd	013-2345678	Doctor	9000	234 Jalan YZA, Penang
	940707-07-4568	M7	Asiah Binti Abdul	011-2345678	Lawyer	7000	345 Jalan MNO, Kuala Lumpur
	940909-08-2346	M9	Alia Binti Andi	015-6789012	Teacher	3500	901 Jalan STU, Johor Bahru
	950606-05-0122	M6	Zainab Binti Yusof	013-8901234	Homemaker	3000	890 Jalan JKL, Johor Bahru
	950808-09-8902	M8	Noraini Binti Ali	018-3456789	Business Owner	8000	678 Jalan PQR, Penang
	960505-06-6788	M5	Laila Binti Amir	016-7890123	Technician	5500	567 Jalan GHI, Penang
	960514-13-2348	M14	Najihah Binti Kamil	018-8901234	Sales Manager	6800	789 Jalan HIJ, Penang
	970303-03-9012	M3	Maisarah Binti Azizi	017-9876543	Engineer	6000	789 Jalan LMN, Johor Bahru
	971013-10-8908	M13	Yasmin Binti Mustafa	016-6789012	Psychologist	7500	567 Jalan EFG, Kuala Lumpur
	980202-02-5678	M2	Siti Fatimah Binti M...	019-8765432	Teacher	3500	456 Jalan XYZ, Penang
	990101-08-1234	M1	Aminah Binti Ahmad	012-3456789	Accountant	4000	123 Jalan ABC, Kuala Lumpur
•	NULL	NULL	NULL	NULL	NULL	NULL	NULL

SELECT * FROM INSURANCE;

Result Grid						
Filter Rows:						
Edit:						
Export/Import:						
Wrap Cell Content:						
InsuranceID	MotherIC	Coverage_amount	Policy_start_date	Policy_end_date	Type_of_insurance	
I1	990101-08-1234	3000	2023-01-01	2024-01-01	Maternity Coverage	
I10	921010-11-6786	4000	2023-10-01	2024-10-01	Life Insurance	
I11	931111-10-0124	1500	2023-11-01	2024-11-01	Disability Insurance	
I12	921212-12-4562	2200	2023-12-01	2024-12-01	Income Protection	
I13	971013-10-8908	3000	2024-01-01	2025-01-01	Retirement Savings Plan	
I14	960514-13-2348	1800	2024-02-01	2025-02-01	Cancer Insurance	
I15	911115-14-6786	2500	2024-03-01	2025-03-01	Personal Accident Coverage	
I2	980202-02-5678	2000	2023-02-01	2024-02-01	Child Health Coverage	
I3	970303-03-9012	1000	2023-03-01	2024-03-01	General Health Insurance	
I4	900404-04-3456	2500	2023-04-01	2024-04-01	Dental Coverage	
I5	960505-06-6788	1800	2023-05-01	2024-05-01	Vision Care	
I6	950606-05-0122	3500	2023-06-01	2024-06-01	Family Health Plan	
I7	940707-07-4568	1200	2023-07-01	2024-07-01	Critical Illness Insurance	
I8	950808-09-8902	2800	2023-08-01	2024-08-01	Accidental Coverage	
I9	940909-08-2346	2000	2023-09-01	2024-09-01	Travel Insurance	
NULL	NULL	NULL	NULL	NULL	NULL	

SELECT * FROM MOTHER_PATIENT;

SELECT * FROM CHILD_PATIENT;

SELECT * FROM MOTHER_COVERAGE;

ALTER:

ALTER TABLE CHILD

Drop column Child_gender;

Result Grid					
Filter Rows:					
Edit:					
Export/Import:					
Wrap Cell Content:					
ChildIC	MotherIC	Child_name	Child_address	Child_status	
080101-14-5673	990101-08-1234	Ali Bin Amin	456 Jalan XYZ, Kuala Lumpur	Healthy	
090202-14-9012	980202-02-5678	Fatimah Binti Dollah	789 Jalan LMN, Penang	Healthy	
100303-02-3455	970303-03-9012	Ahmad Bin Razak	101 Jalan PQR, Johor Bahru	Healthy	
101115-14-2346	911115-14-6786	Nurul Huda Binti Zainal	667 Jalan KLM, Johor Bahru	Healthy	
110404-03-5678	900404-04-3456	Nurul Aisha Binti Ali	234 Jalan DEF, Kuala Lumpur	Healthy	
110606-11-2346	950606-05-0122	Norazizah Binti Hassan	890 Jalan JKL, Johor Bahru	Healthy	
120505-04-9017	960505-06-6788	Mohd Ali Bin Ahmad	567 Jalan GHI, Penang	Healthy	
120707-12-5673	940707-07-4568	Hassan Bin Abdullah	345 Jalan MNO, Kuala Lumpur	Healthy	
150808-08-9012	950808-09-8902	Noraini Binti Ali	678 Jalan PQR, Penang	Healthy	
151014-13-9015	960514-13-2348	Abdul Rahman Bin Ismail	556 Jalan HIJ, Penang	Healthy	
151213-09-5678	971013-10-8908	Siti Aishah Binti Abdul	445 Jalan EFG, Kuala Lumpur	Healthy	
160909-07-3453	940909-08-2346	Ali Bin Hussein	901 Jalan STU, Johor Bahru	Healthy	
171212-06-2345	921212-12-4562	Zainal Bin Ahmad	334 Jalan BCD, Johor Bahru	Healthy	
181010-06-5678	921010-11-6786	Salmah Binti Hamid	112 Jalan VWX, Kuala Lumpur	Healthy	
201111-14-9013	931111-10-0124	Hamid Bin Ismail	223 Jalan YZA, Penang	Healthy	
NULL	NULL	NULL	NULL	NULL	

ALTER TABLE HEALTHCARE_SERVICE

ADD COLUMN Treatment_status VARCHAR(20);

Result Grid						
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:
HospitalID	Hospital_name	Hospital_address	Hospital_cost	Type_of_treatment	Treatment_status	
H1	City Medical Center	456 Jalan XYZ, Kuala Lumpur	2000	Maternity	NULL	
H10	Rehabilitation Center	123 Jalan VWX, Kuala Lumpur	1500	Rehabilitation	NULL	
H11	Child Education Clinic	234 Jalan YZA, Penang	1300	Education Support	NULL	
H12	Psychological Services Center	456 Jalan BCD, Johor Bahru	1600	Psychology	NULL	
H13	Speech Therapy Institute	567 Jalan EFG, Kuala Lumpur	1100	Speech Therapy	NULL	
H14	Occupational Therapy Center	789 Jalan HIJ, Penang	1200	Occupational Therapy	NULL	
H15	Wellness Clinic	890 Jalan KLM, Johor Bahru	1400	Comprehensive Wellness	NULL	
H2	Suburb Hospital	789 Jalan LMN, Penang	1500	Pediatric	NULL	
H3	Rural Clinic	101 Jalan PQR, Johor Bahru	800	General Checkup	NULL	
H4	Family Health Center	234 Jalan DEF, Kuala Lumpur	1200	Family Medicine	NULL	
H5	Child Wellness Clinic	567 Jalan GHI, Penang	900	Child Health	NULL	
H6	Women Health Clinic	890 Jalan JKL, Johor Bahru	1000	Gynecology	NULL	
H7	Mental Wellness Center	345 Jalan MNO, Kuala Lumpur	1800	Mental Health	NULL	
H8	Dental Care Hub	678 Jalan PQR, Penang	600	Dental Services	NULL	
H9	Eye Care Institute	901 Jalan STU, Johor Bahru	500	Ophthalmology	NULL	
* NULL	NULL	NULL	NULL	NULL	NULL	

HEALTHCARE_SERVICE 17 x

Output

DROP:

ALTER TABLE Donor

DROP COLUMN DonorEmail;

Result Grid			
Filter Rows:		Edit:	
DonorIC	DonorName	DonorNumPhone	
960101-14-1234	Ahmad Bin Abu	012-3456789	
960202-14-5678	Siti Binti Hamzah	019-8765432	
960303-14-9012	Razak Bin Khaulid	017-9876543	
960404-14-3456	Norazizah Binti Afiq	014-5678901	
960505-14-6789	Fatimah Binti Hasif	016-7890123	
960606-14-9012	Zainab Binti Rosyam	013-1234567	
960707-14-2345	Hassan Bin Noor	018-2345678	
960808-14-5678	Noraini Binti Fezrul	019-3456789	
960909-14-9012	Ali Bin Khan	011-4567890	
961010-14-3456	Salmah Binti Donori	016-5678901	
961111-14-6789	Hamid Bin Zainal	014-6789012	
961212-14-9012	Zainal Bin Yassin	017-7890123	
961313-14-2345	Siti Aishah Binti Ali	012-8901234	
961414-14-5678	Abdul Rahman Bin ...	019-9012345	
961515-14-9012	Nurul Huda Binti Rizan	016-0123456	
* NULL	NULL	NULL	

DELETE:

DELETE FROM HEALTHCARE_SERVICE WHERE HospitalID = 'H2';

Result Grid					
Filter Rows:					
Edit:					
Export/Import:					
Wrap Cell Content:					
HospitalID	Hospital_name	Hospital_address	Hospital_cost	Type_of_treatment	Treatment_status
H1	City Medical Center	456 Jalan XYZ, Kuala Lumpur	2000	Maternity	Completed
H10	Rehabilitation Center	123 Jalan VWX, Kuala Lumpur	1500	Rehabilitation	Cancelled
H11	Child Education Clinic	234 Jalan YZA, Penang	1300	Education Support	Completed
H12	Psychological Services Center	456 Jalan BCD, Johor Bahru	1600	Psychology	Cancelled
H13	Speech Therapy Institute	567 Jalan EFG, Kuala Lumpur	1100	Speech Therapy	Completed
H14	Occupational Therapy Center	789 Jalan HIJ, Penang	1200	Occupational Therapy	Scheduled
H15	Wellness Clinic	890 Jalan KLM, Johor Bahru	1400	Comprehensive Wellness	Scheduled
H3	Rural Clinic	101 Jalan PQR, Johor Bahru	800	General Checkup	Scheduled
H4	Family Health Center	234 Jalan DEF, Kuala Lumpur	1200	Family Medicine	Completed
H5	Child Wellness Clinic	567 Jalan GHI, Penang	900	Child Health	Completed
H6	Women Health Clinic	890 Jalan JKL, Johor Bahru	1000	Gynecology	Scheduled
H7	Mental Wellness Center	345 Jalan MNO, Kuala Lumpur	1800	Mental Health	Cancelled
H8	Dental Care Hub	678 Jalan PQR, Penang	600	Dental Services	Completed
H9	Eye Care Institute	901 Jalan STU, Johor Bahru	500	Ophthalmology	Completed
NULL	NULL	NULL	NULL	NULL	NULL

UPDATE:

UPDATE HEALTHCARE_SERVICE

SET Treatment_status = 'Completed'

WHERE HospitalID = 'H1';

UPDATE HEALTHCARE_SERVICE

SET Treatment_status = 'Cancelled'

WHERE HospitalID = 'H2';

UPDATE HEALTHCARE_SERVICE

SET Treatment_status = 'Scheduled'

WHERE HospitalID = 'H3';

UPDATE HEALTHCARE_SERVICE

SET Treatment_status = 'Completed'

WHERE HospitalID = 'H4';

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Completed'  
WHERE HospitalID = 'H5';
```

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Scheduled'  
WHERE HospitalID = 'H6';
```

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Cancelled'  
WHERE HospitalID = 'H7';
```

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Completed'  
WHERE HospitalID = 'H8';
```

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Completed'  
WHERE HospitalID = 'H9';
```

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Cancelled'  
WHERE HospitalID = 'H10';
```

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Completed'  
WHERE HospitalID = 'H11';
```

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Cancelled'  
WHERE HospitalID = 'H12';
```

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Completed'  
WHERE HospitalID = 'H13';
```

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Scheduled'  
WHERE HospitalID = 'H14';
```

```
UPDATE HEALTHCARE_SERVICE  
SET Treatment_status = 'Scheduled'  
WHERE HospitalID = 'H15';
```

Result Grid						
Filter Rows:						
Edit:						
Export/Import:						
Wrap Cell Content:						
HospitalID	Hospital_name	Hospital_address	Hospital_cost	Type_of_treatment	Treatment_status	
H1	City Medical Center	456 Jalan XYZ, Kuala Lumpur	2000	Maternity	Completed	
H10	Rehabilitation Center	123 Jalan VWX, Kuala Lumpur	1500	Rehabilitation	Cancelled	
H11	Child Education Clinic	234 Jalan YZA, Penang	1300	Education Support	Completed	
H12	Psychological Services Center	456 Jalan BCD, Johor Bahru	1600	Psychology	Cancelled	
H13	Speech Therapy Institute	567 Jalan EFG, Kuala Lumpur	1100	Speech Therapy	Completed	
H14	Occupational Therapy Center	789 Jalan HIJ, Penang	1200	Occupational Therapy	Scheduled	
H15	Wellness Clinic	890 Jalan KLM, Johor Bahru	1400	Comprehensive Wellness	Scheduled	
H2	Suburb Hospital	789 Jalan LMN, Penang	1500	Pediatric	Cancelled	
H3	Rural Clinic	101 Jalan PQR, Johor Bahru	800	General Checkup	Scheduled	
H4	Family Health Center	234 Jalan DEF, Kuala Lumpur	1200	Family Medicine	Completed	
H5	Child Wellness Clinic	567 Jalan GHI, Penang	900	Child Health	Completed	
H6	Women Health Clinic	890 Jalan JKL, Johor Bahru	1000	Gynecology	Scheduled	
H7	Mental Wellness Center	345 Jalan MNO, Kuala Lumpur	1800	Mental Health	Cancelled	
H8	Dental Care Hub	678 Jalan PQR, Penang	600	Dental Services	Completed	
H9	Eye Care Institute	901 Jalan STU, Johor Bahru	500	Ophthalmology	Completed	
NULL	NULL	NULL	NULL	NULL	NULL	

WHERE:

SELECT M.Mother_name, M.Mother_salary

FROM MOTHER M

WHERE Mother_name like 'N%' and Mother_salary between '3000' and '9500';

Result Grid		
Filter Rows:		
Export:		
Wrap Cell Content:		
Mother_name	Mother_salary	
Norazizah Binti Ali	4500	
Norlia Binti Mohd	9000	
Noraini Binti Ali	8000	
Najihah Binti Kamil	6800	

WHERE, AND:

SELECT distinct M.MotherID, S.ServiceID

FROM MOTHER M, MANAGEMENT_SERVICE S

WHERE M.ServiceID = S.ServiceID

AND Service_cost between ' 500' and '1200 ';

Result Grid			Filter Rows:
	MotherIC	ServiceID	
▶	980202-02-5678	M2	
	950808-09-8902	M8	

WHERE, GROUP BY, SUM:

```
SELECT Type_of_Treatment, SUM(Hospital_cost) AS Total_Cost
FROM HEALTHCARE_SERVICE
WHERE Type_of_Treatment LIKE 'M%'
GROUP BY Type_of_Treatment;
```

Result Grid			Filter Rows:
	Type_of_Treatment	Total_Cost	
▶	Maternity	2000	
	Mental Health	1800	

WHERE, ORDER BY:

```
SELECT I.InsuranceID, M.MotherIC, datediff(I.Policy_end_date, I.Policy_start_date) as 'Insurance
Duration (days)'
FROM INSURANCE I, MOTHER M
WHERE M.MotherIC = I.MotherIC
ORDER BY datediff(I.Policy_start_date, I.Policy_end_date) asc;
```

Result Grid			
		Filter Rows:	Export:
	InsuranceID	MotherIC	Insurance Duration (days)
▶	I10	921010-11-6786	366
	I11	931111-10-0124	366
	I12	921212-12-4562	366
	I13	971013-10-8908	366
	I14	960514-13-2348	366
	I3	970303-03-9012	366
	I4	900404-04-3456	366
	I5	960505-06-6788	366
	I6	950606-05-0122	366
	I7	940707-07-4568	366
	I8	950808-09-8902	366
	I9	940909-08-2346	366
	I1	990101-08-1234	365
	I15	911115-14-6786	365
	I2	980202-02-5678	365

JOIN 2 TABLES, WHERE:

```

SELECT M.Mother_name, I.Coverage_amount
FROM MOTHER M
JOIN INSURANCE I ON M.MotherIC = I.MotherIC
WHERE I.Coverage_amount > 2000;

```

Result Grid			Filter Rows:	Exp
	Mother_name	Coverage_amount		
▶	Aminah Binti Ahmad	3000		
	Zakaria Bin Rahman	4000		
	Husna Binti Kamarul	2200		
	Yasmin Binti Mustafa	3000		
	Zahirah Binti Yusof	2500		
	Norazizah Binti Ali	2500		
	Zainab Binti Yusof	3500		
	Noraini Binti Ali	2800		

JOIN 4 TABLES, WHERE AND GROUP BY:

```

SELECT S.ServiceID, S.Type_of_services, M.Mother_name, C.Child_name
FROM MANAGEMENT_SERVICE S, MOTHER M, CHILD C, CHILDCARE_SERVICE CS
WHERE S.ServiceID=M.ServiceID
AND M.MotherIC=C.MotherIC
AND C.ChildIC=CS.ChildIC
Group by S.ServiceID, S.Type_of_services, M.Mother_name, C.Child_name;

```

	ServiceID	Type_of_services	Mother_name	Child_name
▶	M1	Medical Checkup	Aminah Binti Ahmad	Ali Bin Amin
	M10	Eye Examination	Zakaria Bin Rahman	Salmah Binti Hamid
	M11	Maternal Nutrition Counseling	Norlia Binti Mohd	Hamid Bin Ismail
	M12	Physiotherapy	Husna Binti Kamarul	Zainal Bin Ahmad
	M13	Psychological Counseling	Yasmin Binti Mustafa	Siti Aishah Binti Abdul
	M14	Speech Therapy	Najihah Binti Kamil	Abdul Rahman Bin Ismail
	M15	Occupational Therapy	Zahirah Binti Yusof	Nurul Huda Binti Zainal
	M2	Maternity Care	Siti Fatimah Binti Mohd	Fatimah Binti Dollah
	M3	Child Vaccination	Maisarah Binti Azizi	Ahmad Bin Razak
	M4	Antenatal Checkup	Norazizah Binti Ali	Nurul Aisha Binti Ali
	M5	Postnatal Checkup	Laila Binti Amir	Mohd Ali Bin Ahmad
	M6	General Checkup	Zainab Binti Yusof	Norazizah Binti Hassan
	M7	Gynecological Services	Asiah Binti Abdul	Hassan Bin Abdullah
	M8	Pediatric Care	Noraini Binti Ali	Noraini Binti Ali
	M9	Dental Checkup	Alia Binti Andi	Ali Bin Hussein

7.0 NORMALIZATION

- **Primary Key:**

MotherID, InsuranceID, ChildID, ChildcareID, HospitalID, CompanyID, ServiceID, DonationID, DonorID, ConsultationID

- **Partial Dependency**

(MotherID, Mother_name, Mother_contact_number, Mother_job, Mother_salary, Mother_address)

(InsuranceID, Coverage_amount, Policy_start_date, Policy_end_date, Type_of_insurance)

Mother_Coverage (InsuranceID,MotherID)

(ChildID, Child_name, Child_gender, Child_address, Child_status)

(HospitalID, Hospital_name, Hospital_address, Hospital_cost, Type_of_treatment)

Mother_patient (MotherID,HospitalID)

(ServiceID, Type_of_services, Service_Start_date, Service_End_date, Service_cost)

(DonationID, Donor_amount, Donation_description, NGO, Government)

(CompanyID, Company_name, Company_contact_phone, Company_email, Company_address, Workers_qualification)

- **Transitive Dependency**

Childcare_Service (ChildcareID, Guardian_name, Staff_information, Childcare_address)

Consultation (ConsultationID, Type_of_consultation, Consultation_date, Consultation_plan)

Donor (DonorID, DonorName, DonorNumPhone, DonorEmail)

1NF

Mother (**MotherIC**, Mother_name, Mother_contact_number, Mother_job, Mother_salary, Mother_address, **InsuranceID**, Coverage_amount, Policy_start_date, Policy_end_date, Type_of_insurance, **ChildIC**, Child_name, Child_gender, Child_address, Child_status, ChildcareID, Guardian_name, Staff_information, Childcare_address, **HospitalID**, Hospital_name, Hospital_address, Hospital_cost, Type_of_treatment, **ServiceID**, Type_of_service, Service_start_date, Service_end_date, Service_cost, **CompanyID**, Company_name, Company_contact_phone, Company_email, Company_address, workers_qualification, **DonationID**, Donor_amount, Donation_description, NGO, Government, DonorIC, DonorName, DonorNumPhone, DonorEmail, ConsultationID, Type_of_consultation, Consultation_date, Consultation_plan)

2NF

Mother (**MotherIC**, Mother_name, Mother_contact_number, Mother_job, Mother_salary, Mother_address)

Insurance(**InsuranceID**, Coverage_amount, Policy_start_date, Policy_end_date, Type_of_insurance)

Mother_Coverage (**InsuranceID**, **MotherIC**)

Child(**ChildIC**, Child_name, Child_gender, Child_address, Child_status, ChildcareID, Guardian_name, Staff_information, Childcare_address,)

Healthcare_Service(**HospitalID**, Hospital_name, Hospital_address, Hospital_cost, Type_of_treatment)

Mother_patient (**MotherIC**, **HospitalID**)

Management_Service (**ServiceID**, Type_of_services, Service_Start_date, Service_End_date, Service_cost,, ConsultationID, Type_of_consultation, Consultation_date, Consultation_plan)

Company(**CompanyID**, Company_name, Company_contact_phone, Company_email, Company_address, Workers_qualification)

Donation (**DonationID**, Donor_amount, Donation_description, NGO, Government, DonorIC, DonorName, DonorNumPhone, DonorEmail)

3NF

Mother (MotherIC, Mother_name, Mother_contact_number, Mother_job, Mother_salary, Mother_address)

Mother_Coverage (InsuranceID, MotherIC)

Insurance(InsuranceID, MotherIC, Coverage_amount, Policy_start_date, Policy_end_date, Type_of_insurance)

Mother_Patient (MotherIc, HospitalID)

Child (ChildIC, Child_name, Child_gender, Child_address, Child_status)

Childcare_Service (ChildcareID, Guardian_name, Staff_information, Childcare_address)

Child_Patient (ChildIC, HospitalID)

Healthcare_Service (HospitalID, Hospital_name, Hospital_address, Hospital_cost, Type_of_treatment)

Management_Service (ServiceID, Type_of_services, Service_Start_date, Service_End_date, Service_cost)

Company(CompanyID, Company_name, Company_contact_phone, Company_email, Company_address, Workers_qualification)

Donation (DonationID, Donor_amount, Donation_description, NGO, Government_)

Donor (DonorIC, DonorName, DonorNumPhone, DonorEmail)

Consultation (ConsultationID, Type_of_consultation, Consultation_date, Consultation_plan)

8.0 DATA DICTIONARY (DD)

MOTHER ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	MotherIC	Mother IC	Varchar	20	PK, Not Null
2.	Mother_name	Mother Name	Varchar	50	
3.	Mother_contact_number	Mother Contact Number	Varchar	50	
4.	Mother_job	Mother Job	Varchar	20	
5.	Mother_salary	Mother Salary	Varchar	10	
6.	Mother_address	Mother Address	Varchar	30	
7.	ServiceID	Service ID	Varchar	20	FK1

MANAGEMENT SERVICE ENTITIY

No	Data/Variable	Description	Type	Length	PK/FK
1.	ServiceID	Service ID	Varchar	20	PK, Not Null
2.	Type_of_service	Type Of Service	Varchar	30	
3.	Service_Start_date	Service Start Date	Date		
4.	Service_End_Date	Service End Date	Date		
5.	Service_cost	Sevice Cost	Varchar	50	
6.	DonationID	Donation ID	Varchar	10	FK1

CONSULTATION ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	Consultation_ID	Consultation ID	Varchar	10	PK, Not Null
2.	Type_of_consultation	Type Of Consultation	Varchar	30	
3.	Consultation_date	Consultation Date	Date		
4.	Consultation_plan	Consultation Plan	Varchar	30	

DONATION ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	DonationID	Donation ID	Varchar	10	PK, Not Null
2.	Donor_amount	Donor Amount	Varchar	10	
3.	Donation_description	Donation Description	Varchar	50	
4.	NGO	NGO	Varchar	15	
5.	Goverment	Goverment	Varchar	10	
6.	DonorIC	Donor IC	Varchar	20	FK1

HEALTHCARE SERVICE ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	HospitalID	Hospital ID	Varchar	10	PK, Not Null
2.	Hospital_name	Hospital Name	Varchar	30	
3.	Hospital_address	Hospita Address	Varchar	40	
4.	Hospital_cost	Hospital Cost	Varchar	10	
5.	Type_of_treatment	Type Of Treatment	Varchar	20	

INSURANCE ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	InsuranceID	Insurance ID	Varchar	10	PK, Not Null
2.	Coverage_amount	Coverage Amount	Varchar	30	
3.	Policy_start_date	Policy start date	Date		
4.	Policy_end_date	Policy end date	Date		
5.	Type_of_insurance	Type Of Insurance	Varchar	20	
6.	MotherIC	Mother IC	Varchar	20	FK1

CHILD ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	ChildIC	Child IC	Varchar	20	PK, Not Null
2.	Child_name	Child Name	Varchar	30	
3.	Child_gender	Child Gender	Varchar	10	
4.	Child_address	Child Address	Varchar	30	
5.	HospitalID	Hospital ID	Varchar	10	FK1

CHILDCARE SERVICE ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	ChildcareID	Childcare ID	Varchar	10	PK, Not Null
2.	Guardian_name	Guardian Name	Varchar	30	
3.	Staff_information	Staff Information	Varchar	50	
4.	Childcare_address	Childcare Address	Varchar	50	
5.	ChildIC	Child IC	Varchar	20	FK

DONOR ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	DonorIC	Donor IC	Varchar	20	PK, Not Null
2.	DonorName	Donor Name	Varchar	30	
3.	DonorNumPhone	Donor Number Phone	Varchar	15	
4.	DonorEmail	Donor Email	Varchar	50	

COMPANY ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	CompanyID	Company ID	Varchar	10	PK, Not Null
2.	Company_name	Company Name	Varchar	30	
3.	Company_contact_phone	Company Contact Phone	Varchar	15	
4.	Company_email	Company Email	Varchar	50	
5.	Company_address	Company Address	Varchar	50	
6.	Workers_qualification	Workers Qualification	Varchar	50	
7.	ServiceID	Service ID	Varchar	20	FK

MOTHER COVERAGE ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	InsuranceID	Insurance ID	Varchar	10	PK, FK1
2.	MotherIC	Mother IC	Varchar	15	PK, FK2

MOTHER PATIENT ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	MotherIC	Mother IC	Varchar	15	PK, FK1
2.	HospitalID	Hospital ID	Varchar	10	PK, FK2

CHILD PATIENT ENTITY

No	Data/Variable	Description	Type	Length	PK/FK
1.	ChildIC	Child IC	Varchar	20	PK, FK1
2.	HospitalID	Hospital ID	Varchar	10	PK, FK2

9.0 REFERENCES

1. Reference: Single Mother Portal

Kamarudin, A. (2023, May 12). *Single Mother : Motivation - PORTAL MyHEALTH*. PORTAL MyHEALTH. <http://www.myhealth.gov.my/en/single-mother-motivation1/>

2. Reference: ERD and SQL

Raghu. (n.d.). *Database management system solution*. Princeton University. Retrieved December 28, 2023, from https://www.cs.princeton.edu/courses/archive/spr00/cs425/soln_from_text_midterm.pdf

3. ResearchGate. (2021, December). Indonesian antenatal nutrition education: A qualitative study of healthcare professional views - Scientific Figure. Retrieved January 1, 2024, from https://www.researchgate.net/publication/356963384_Indonesian_antenatal_nutrition_education_A_qualitative_study_of_healthcare_professional_views

4. Patient Care System ER Diagram | FreeProjectz. (2017, July 17). <https://www.freeprojectz.com/entity-relationship/patient-care-system-er-diagram>

5. S. (2021, September 18). ONLINE STUDENT COUNSELING SYSTEM. Instant Edu Help. Retrieved December 31, 2022, from <https://instanteduhelp.com/online-student-counseling-system/>

6. Tool used: Diagrams.net

<https://app.diagrams.net/>

7. Tools used:

MYSQL 8.0 COMMAND LINE CLIENT

10.0 PLANNING

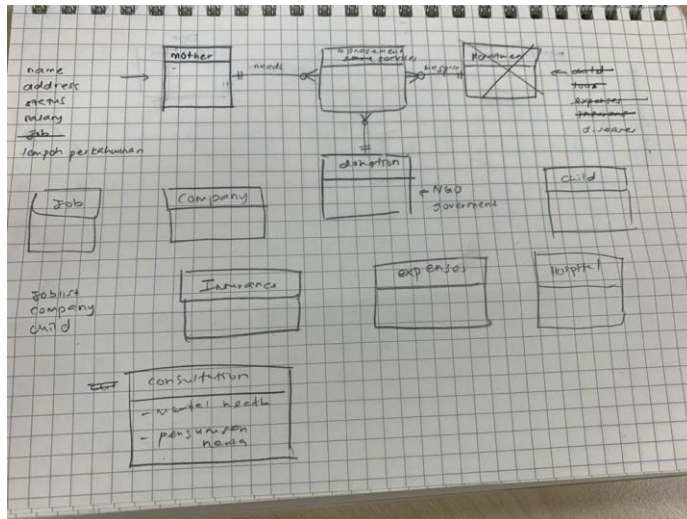
<u>TASK:</u>	<u>MEMBERS:</u>
Project Background:	Aqilah & Anis
Objectives:	Ainul
Scopes:	Balqis
Comparison between two databases:	Aqilah, Amirah & Ainul
Case Study:	Aqilah & Anis
Business Rule:	Anis, Amirah & Balqis
ERD:	Anis, Amirah & Balqis
EERD:	Anis, Amirah & Balqis
Data Definition Language (DDL):	Ainul & Aqilah
Data Manipulation Language (DML):	Ainul & Aqilah
Normalization	Anis & Ainul
Data dictionary:	Balqis
References:	Anis
Planning:	Amirah
Appendix:	Ainul & Aqilah

11.0 APPENDIX

Group Meeting Report [1]			
Date: 13/10/2023	Venue: BLOK Z	Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH 5. NUR AINUL NASUHA	
Time: 11 am -12 pm	SCL Leader: Anis		
No	Task List	Progress Task/ Table Involves/ Remarks	Person in Charge (PIC)
1	Choose title	Discuss which title we should choose.	Anis
2	List attribute	Discuss what attributes should have to make a table.	Ainul

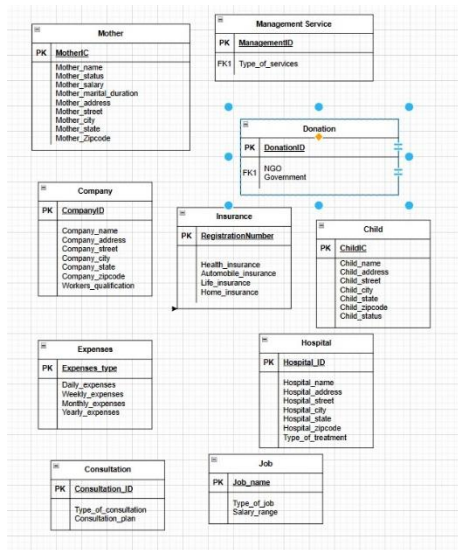
Group Meeting Report [2]			
Date: 19/10/2023		Venue: Blok Z	Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH 5. NUR AINUL NASUHA
Time: 8 am –10 am		SCL Leader: Amirah	
No	Task List	Progress Task/ Table Involves/ Remarks	Person in Charge (PIC)
1	Sketch ERD	Try sketching the ERD for our project	Amirah

Proof:



Group Meeting Report [3]			
Date: 25/10/2023		Venue: STUDENT LOUNGE KK3	
Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH 5. NUR AINUL NASUHA		Time: 9 pm -11 pm	
SCL Leader: Ainul			
No	Task List	Progress Task/ Table Involves/ Remarks	Person in Charge (PIC)
1	Sketch ERD in draw.io	Try sketching the ERD for our project	Ainul

Proof:



Group Meeting Report [4]			
Date: 26/10/2023		Venue: BLOK M	Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH 5. NUR AINUL NASUHA
Time: 8 am - 12 pm		SCL Leader: Balqis	
No	Task List	Progress Task/ Table Involves/ Remarks	Person in Charge (PIC)
1	Sketch ERD in draw.io	Continue sketching the ERD for our project	Balqis

2	Overview (Business rule)	List all the business rule based on ERD	Balqis & Anis
3	Foreign Key	Identify foreign key	Amirah, Aqilah & Ainul
4	Review ERD	Ask dr. about the ERD	Amirah, Aqilah & Ainul

Group Meeting Report [5]			
Date: 1/11/2023	Venue: STUDENT LOUNGE KK3	Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH 5. NUR AINUL NASUHA	
Time: 8 pm -12 am	SCL Leader: Aqilah		
No	Task List	Progress Task/ Table Involves/ Remarks	Person in Charge (PIC)
1	Project background	Write the project background in the docs	Anis & Aqilah

2	Objective	List all the objectives in the docs	Ainul
3	Scopes	Write the project's scope in the docs	Ainul
4	Case study	Write case study in the docs	Aqilah

Group Meeting Report [6]			
Date: 3/11/2023		Venue: Blok M	Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH 5. NUR AINUL NASUHA
Time: 8 am -12 pm		SCL Leader: Aqilah	
No	Task List	Progress Task/ Table Involves/ Remarks	Person in Charge (PIC)

1	Compare 2 databases	Compare 2 databases in a table	Ainul, Balqis, Aqilah, Amirah & Anis
2	Find solution for 2.0	Everyone in the group gives one example for manual process, database system 1 and 2. So that we can compare and choose the best example to put in our project.	Ainul, Balqis, Aqilah, Amirah & Anis

Group Meeting Report [7]			
Date: 21/12/2023	Venue: GOOGLE MEET	Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH 5. NUR AINUL NASUHA	
Time: 9 pm – 10.30 pm	SCL Leader: Aqilah		
No	Task List	Progress Task/ Table Involves/ Remarks	Person in Charge (PIC)

1	Find solution for 3.0 - - 6.0	Distribute the works among our group	Amirah
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Group Meeting Report [8]		
Date: 22/12/2023 - 24/12/2023	Venue: -	Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH 5. NUR AINUL NASUHA
Time: -	SCL Leader: Anis	

No	Task List	Progress Task/ Table Involves/ Remarks	Person in Charge (PIC)
1	No. 3.0 & 4.0	Finalized the answer for question 3 and 4	Amirah, Anis & Balqis

Group Meeting Report [9]		
Date: 24/12/2023 - 27/12/2023	Venue: -	Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH 5. NUR AINUL NASUHA

Time: -		SCL Leader: Aqilah	
No	Task List	Progress Task/ Table Involves/ Remarks	Person in Charge (PIC)
1	No. 5.0 and 6.0	Finalized the answer for question 5 and 6	Aqilah & Ainul
2	No. 8.0	Finalized the answer for question 8	Balqis
3	No. 9.0	Finalized the answer for question 9	Anis
4	No. 10	Finalized the answer for question 10	Amirah
5	No. 11	Finalized the answer for question 11	Ainul & Aqilah

Group Meeting Report [10]		
Date: 27/12/2023	Venue: Facetime Call	Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH

		5. NUR AINUL NASUHA	
Time: 5.45 pm – 6.30 pm		SCL Leader: Aqilah	
No	Task List	Progress Task/ Table Involves/ Remarks	Person in Charge (PIC)
1	ERD	Review back the ERD	Amirah, Anis & Balqis
2	Coding	Review back the coding	Aqilah & Ainul

Date: 5/1/2024		Venue:	Attendees: 1. AQILAH MAISARAH 2. ANIS AQILAH 3. PUTRI BALQIS BATRISYIA 4. AMIRAH AISYAH 5. NUR AINUL NASUHA	
Time: 9:30 am – 10:00 am		SCL Leader: Anis & Ainul		
No	Task List	Progress Task/ Table Involves/ Remarks		Person in Charge (PIC)
1	Normalization	Review and finalize the normalization		Aqilah, Anis, Balqis, Ainul, Amirah

Proof:

