database.sql

```
CREATE DATABASE medical insurance;
USE medical insurance;
CREATE TABLE customer
  (
        INT NOT NULL auto increment PRIMARY KEY,
     id
     f_name VARCHAR(20) NOT NULL,
     m name VARCHAR(20) NOT NULL,
     1 name VARCHAR(20) NOT NULL,
     e mail VARCHAR(30) NOT NULL,
     address VARCHAR(50) NOT NULL,
     b date DATE NOT NULL,
     gender VARCHAR(6) NOT NULL,
     phone CHAR(11) NOT NULL
  );
CREATE TABLE dependent
  (
     cus id INT NOT NULL,
     name
          VARCHAR(20) NOT NULL,
     b date DATE NOT NULL,
     gender VARCHAR(6) NOT NULL,
     kinship VARCHAR(20) NOT NULL,
     FOREIGN KEY (cus_id) REFERENCES customer (id),
     PRIMARY KEY (cus id, name, kinship)
  );
CREATE TABLE hospital
  (
             INT NOT NULL auto increment PRIMARY KEY,
     id
            VARCHAR(20) NOT NULL,
     address VARCHAR(50) NOT NULL,
     e_mail VARCHAR(30) NOT NULL,
     phone
            CHAR(11) NOT NULL
  );
CREATE TABLE plan
  (
              INT NOT NULL auto increment PRIMARY KEY,
     id
             VARCHAR(20) UNIQUE NOT NULL,
     benefits TEXT NOT NULL,
     price DECIMAL(8, 2) NOT NULL
  );
CREATE TABLE enrolled
  (
     hos_id INT NOT NULL,
     plan id INT NOT NULL,
     FOREIGN KEY (hos_id) REFERENCES hospital (id),
     FOREIGN KEY (plan id) REFERENCES plan (id),
     UNIQUE no_dup (hos_id, plan_id)
  );
```

```
CREATE TABLE contract
    (
                            INT NOT NULL auto_increment PRIMARY KEY,
          id
          plan id INT NOT NULL,
          cus id INT DEFAULT NULL UNIQUE,
          res id INT DEFAULT NULL,
          dep_name VARCHAR(20) DEFAULT NULL,
          kinship VARCHAR(20) DEFAULT NULL,
          payment method VARCHAR(20),
          FOREIGN KEY (cus id) REFERENCES customer (id),
          FOREIGN KEY (res id, dep name, kinship) REFERENCES dependent (cus id, name
          FOREIGN KEY (plan id) REFERENCES plan (id),
          UNIQUE res id (res id, dep name, kinship),
          CHECK ((cus id IS NOT NULL) OR ( res id IS NOT NULL AND dep name IS NOT NU
          CHECK ((cus id IS NULL AND res id IS NOT NULL) OR (cus id IS NOT NULL AND
    );
CREATE TABLE claim
    (
          id
                                            INT NOT NULL auto increment PRIMARY KEY,
          con id
                                            INT NOT NULL,
          hos_id
                                          INT NOT NULL,
                                            DECIMAL(10, 2) NOT NULL,
          expenses
          expenses subject TEXT NOT NULL,
          expenses_details TEXT NOT NULL,
          status
f date
                                            TINYINT DEFAULT NULL,
          f date
                                                 DATE NOT NULL.
          FOREIGN KEY (con id) REFERENCES contract (id),
          FOREIGN KEY (hos id) REFERENCES hospital (id)
    );
/*----- SAMPLE DATA ------
insert into customer values(DEFAULT, 'Hany','Ahmed','Mahmoud','Hany123@gmail.cc
                                                                           'Omar', 'Mohamed', 'Madgy', 'Omar123@gmail.cc
insert into customer values(DEFAULT,
insert into customer values(DEFAULT, 'Hoda', 'Emad', 'Fawzy', 'Hoda123@gmail.com',
insert into customer values(DEFAULT, 'Noor', 'Naser', 'Mahmoud', 'Noor123@gmail.cc
insert into customer values(DEFAULT, 'Sara', 'Akram', 'Hassan', 'Sara123@gmail.com
insert into customer values(DEFAULT, 'Hany', 'Yasser', 'Saad', 'Hany2123@gmail.com
insert into customer values(DEFAULT, 'Mazen', 'Mostafa', 'Talaat', 'Mazen123@gmail
insert into customer values(DEFAULT, 'Malek', 'Emad', 'Mandoor', 'Malek123@gmail.c
insert into dependent values(1, 'Maria', '2000-03-15', 'female', 'daughter');
insert into dependent values(1, 'Magy', '2003-03-17', 'female', 'daughter');
insert into dependent values(1, magy, 2003-03-17, Temale, daugnter); insert into dependent values(2, 'rafat', '2008-11-01', 'male', 'son'); insert into dependent values(4, 'karim', '2005-03-11', 'male', 'son'); insert into dependent values(6, 'Maha', '2000-12-11', 'female', 'daughter'); insert into dependent values(6, 'yara', '2007-03-11', 'female', 'daughter'); insert into dependent values(6, 'Dina', '1975-03-11', 'female', 'wife'); insert into dependent values(7, 'alii', '2000-01-11', 'rala', 'arala', 'arala'
insert into dependent values(7, 'ali', '2000-01-11', 'male', 'son');
insert into dependent values(7, 'Yousef', '2002-08-08', 'male', 'son');
insert into dependent values(7, 'Taher', '1997-03-11', 'male', 'son');
```

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insert into dependent values(7, 'Sahar', '1977-03-11', 'female', 'wife');
insert into plan values (DEFAULT, 'Basic','5% coverage',6000.00);
insert into plan values (DEFAULT, 'Premium','15% coverage',10000.00);
insert into plan values (DEFAULT, 'Golden','30% coverage',15000.00);
insert into contract values (DEFAULT, 1, 1, null, null, null, 'Cash, visa');
insert into contract values (DEFAULT, 3, 2, null, null, null, rull, 'Cash, visa');
insert into contract values (DEFAULT, 3, 3, null, null, null, null, null, 'Master Card, cash')
insert into contract values (DEFAULT, 3, 4, null, null, null, null, 'Master Card, cash')
insert into contract values (DEFAULT, 3, 5, null, null, null, null, 'Master Card, cash')
insert into contract values (DEFAULT, 3, 6, null, null, 'Cash, visa');
insert into contract values (DEFAULT, 3, 7, null, null, null, null, 'Cash, visa');
insert into contract values (DEFAULT, 3, 8, null, null, null, rull, 'Cash, visa');
insert into contract values (DEFAULT, 3, null, 1, 'Maria', 'daughter', 'Cash, vi
insert into contract values (DEFAULT, 2, null, 1, 'Magy', 'daughter', 'Cash, vis
insert into contract values (DEFAULT, 2, null, 2, 'rafat', 'son', 'Cash, visa'); insert into contract values (DEFAULT, 2, null, 4, 'karim', 'son', 'Cash, visa'); insert into contract values (DEFAULT, 2, null, 6, 'Maha', 'daughter', 'Cash, visinsert into contract values (DEFAULT, 1, null, 6, 'yara', 'daughter', 'Cash, visinsert into contract values (DEFAULT, 1, null, 6, 'Dina', 'wife', 'Cash, visa'); insert into contract values (DEFAULT, 1, null, 7, 'ali', 'son', 'Cash, visa'); insert into contract values (DEFAULT, 1, null, 7, 'ali', 'son', 'Cash, visa');
insert into contract values (DEFAULT, 2, null, 7, 'Yousef', 'son','Cash, visa')
insert into contract values (DEFAULT, 3, null, 7, 'Taher', 'son','Cash, visa');
insert into contract values (DEFAULT, 3, null, 7, 'Sahar', 'wife','Cash, visa')
                                                      'Dar Elshefa','21 alfath street, tanta go
insert into hospital values (DEFAULT,
insert into hospital values (DEFAULT,
                                                       'Abn sina','24 Hassan street, Ghardaka gc
insert into hospital values (DEFAULT,
                                                       'Celopatra','15 Foadalgendy street, tanta
                                                      'Al gama', '16 altahreer square, cairo gov
insert into hospital values (DEFAULT,
                                                      'Alkinanah','11 nasr street, cairo goverr
insert into hospital values (DEFAULT,
insert into hospital values (DEFAULT,
                                                       'Tiba','13 alhelw street, tanta governora
insert into hospital values (DEFAULT,
                                                      'Alfyrooz','17 alahraam gardens, cairo go
insert into hospital values (DEFAULT, 'Alamrican','18 Foad street, Alexandira', insert into hospital values (DEFAULT, 'Alandalos','19 alimobarak street, tanta
insert into hospital values (DEFAULT, 'Almaidan', '13 alnakheel street, Mansoura
insert into enrolled values (1, 1);
insert into enrolled values (3, 1);
insert into enrolled values (4, 1);
insert into enrolled values (9, 1);
insert into enrolled values (2, 2);
insert into enrolled values (4, 2);
insert into enrolled values (5, 2);
insert into enrolled values (8, 2);
insert into enrolled values (7, 2);
insert into enrolled values (9, 2);
insert into enrolled values (1, 3);
insert into enrolled values (2, 3);
```

```
insert into enrolled values (3, 3);
insert into enrolled values (4, 3);
insert into enrolled values (5, 3);
insert into enrolled values (6, 3);
insert into enrolled values (7, 3);
insert into enrolled values (7, 3);
insert into enrolled values (8, 3);
insert into enrolled values (9, 3);
insert into enrolled values (10, 3);

insert into claim values (DEFAULT, 1, 1, 2000, 'broken hand','covering 100% of insert into claim values (DEFAULT, 1, 1, 500 , 'fever','covering 100% of the exinsert into claim values (DEFAULT, 2, 3, 300 , 'gastroenteritis','covering 100% insert into claim values (DEFAULT, 2, 1, 290 , 'asthma','covering 100% of the exinsert into claim values (DEFAULT, 3, 3, 4000, 'broken leg','covering 100% of the insert into claim values (DEFAULT, 4, 3, 500 , 'fever','covering 100% of the exinsert into claim values (DEFAULT, 4, 2, 480 , 'chest pain','covering 100% of the insert into claim values (DEFAULT, 6, 3, 780 , 'flu', 'covering 100% of the expensert into claim values (DEFAULT, 6, 3, 2300, 'broken leg','covering 100% of the insert into claim values (DEFAULT, 5, 1, 700 , 'cold','covering 100% of the insert into claim values (DEFAULT, 5, 1, 700 , 'cold','covering 100% of the expensert into claim values (DEFAULT, 7, 3, 2000, 'chest pain','covering 100% of the insert into claim values (DEFAULT, 7, 3, 2000, 'chest pain','covering 100% of the expensert into claim values (DEFAULT, 7, 3, 2000, 'chest pain','covering 100% of the expensert into claim values (DEFAULT, 8, 1, 250 , 'fever','covering 100% of the expensert into claim values (DEFAULT, 8, 1, 250 , 'fever','covering 100% of the expensert into claim values (DEFAULT, 8, 1, 250 , 'fever','covering 100% of the expensert into claim values (DEFAULT, 6, 3, 780 , 'flu','covering 100% of the expensert into claim values (DEFAULT, 6, 3, 780 , 'flu','covering 100% of the expensert into claim values (DEFAULT, 6, 3, 780 , 'flu','covering 100% of the expensert into claim values (DEFAULT, 6, 3, 780 , 'flu','covering 100% of the expensert into claim values (DEFAULT, 6, 3
```