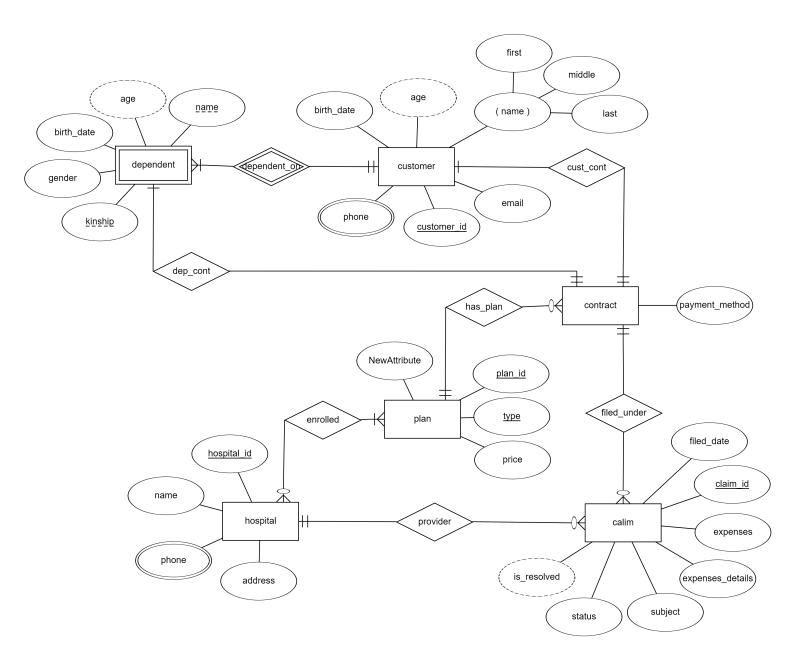


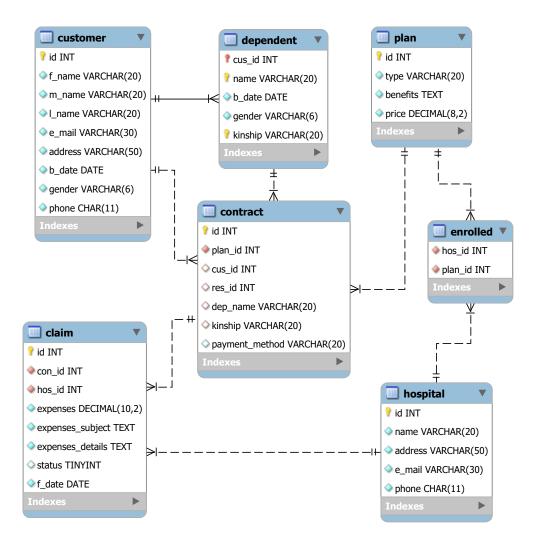
# Medical Insurance

A web application for medical insurance company to handle the customers, admins, claims and contracts

## ER diagram



#### Relational Table





## Objects 🕶

Name	Description
claim	Claim entity describes the claim insurance filed by the customer and can be reviewed by the admin to get accepted or rejected.
contract	The contract between the customer or any of his/her dependents and the medical insurance company.
customer	The customer of the medical insurance company.
dependent	the dependent of a certain customer.
enrolled	The relationship between hospitals and the plans covered by each hospital.
hospital	The hospitals contracted with the company.
plan	The insurance plans offered by the company.



Claim entity describes the claim insurance filed by the customer and can be reviewed by the admin to get accepted or rejected.

### Columns

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
P	id	INT		11		False	False	False	True	True		False	The ld of the claim
<b>∞</b>	con_id	INT		11		False	False	False	True	False		False	The id of the contract that this claim is filed under
<b>∞</b>	hos_id	INT		11		False	False	False	True	False		False	The id of the hospital linked to this claim
	expenses	DECIMAL		10	2	False	False	False	True	False		False	The amount of expanses of this claim in Egyptian Pounds.
	expenses_subject	TEXT				False	False	False	True	False		False	The subject of the claim
	expenses_details	TEXT				False	False	False	True	False		False	The details about the expenses regarding to this claim.
	status	TINYINT		4		False	False	False	False	False	NULL	False	The status of the claim which can be: null (default value): the claim file is yet to be resolved 0: the claim file is denied 1: the claim file is accepted
	date	DATE	0			False	False	False	True	False		False	The date this claim is filed in.

### Indexes

Key	Name	Columns	Unique	Туре	Key Lengths
	con_id	con_id	False	None	
	hos_id	hos_id	False	None	

## Foreign Keys

Name	Columns	Delete Rule	Update Rule
claim_ibfk_1	id	N/S	N/S
claim_ibfk_2	id	N/S	N/S

## Depends On 2







The contract between the customer or any of his/her dependents and the medical insurance company.

#### Columns

Key	Name	Data Type	Length	Precision	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
<b>P</b>	id	INT		11	False	False	False	True	True		False	Contract id
<u></u>	plan_id	INT		11	False	False	False	True	False		False	ld of the plan purchased regarding to this contract
<i>∞</i>	cus_id	INT		11	False	False	False	False	False	NULL	False	The id of the customer beneficiary of this plan.
	res_id	INT		11	False	False	False	False	False	NULL	False	The id of the customer responsible of the beneficiary dependent of this plan
	dep_name	VARCHAR	20		False	False	False	False	False	NULL	False	The name of the beneficiary dependent of this plan
≈ #	kinship	VARCHAR	20		False	False	False	False	False	NULL	False	The kinship between the beneficiary dependent of this plan and his/her responsible customer
	payment_method	VARCHAR	20		False	False	False	False	False	NULL	False	The payment details used to buy this plan.

### **Check Constraints**

Name	Columns	Check Constraints
contract_chk_1	cus_id, res_id, dep_name, kinship	((('cus_id' is not null)) or (('res_id' is not null)) and ('dep_name' is not null) and ('kinship' is not null)))))
contract_chk_2	cus_id, res_id	(((('cus_id' is null) and ('res_id' is not null)) or (('cus_id' is not null) and ('res_id' is null)))))

### Foreign Keys

Name	Columns	Delete Rule	Update Rule
contract_ibfk_1	id	N/S	N/S
contract_ibfk_2	cus_id, name, kinship	N/S	N/S
contract_ibfk_3	id	N/S	N/S

### Depends On 3









## Used By 1





The customer of the medical insurance company.

### Columns

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
٩	id	INT		11		False	False	False	True	True		False	The id of the customer
	f_name	VARCHAR	20			False	False	False	True	False		False	The first name of the customer
	m_name	VARCHAR	20			False	False	False	True	False		False	The middle name of the customer
	I_name	VARCHAR	20			False	False	False	True	False		False	The last name of the customer
	e_mail	VARCHAR	30			False	False	False	True	False		False	The email address of the customer
	address	VARCHAR	50			False	False	False	True	False		False	The address of the customer
	b_date	DATE	0			False	False	False	True	False		False	The birth date of the customer
	gender	VARCHAR	6			False	False	False	True	False		False	The gender of the customer
	phone	CHAR	11			False	False	False	True	False		False	The phone number of the customer

; Used By 2

contract

dependent

## **#** dependent

### Description

the dependent of a certain customer.

### Columns

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
<b>°</b>	cus_id	INT		11		False	False	False	True	False		False	The id of the customer who is responsible of the dependent
ę	name	VARCHAR	20			False	False	False	True	False		False	The first name of the dependent
	b_date	DATE	0			False	False	False	True	False		False	the birth date of the dependent
	gender	VARCHAR	6			False	False	False	True	False		False	The gender of the dependent
P	kinship	VARCHAR	20			False	False	False	True	False		False	The kinship between the dependent and his/her responsible customer

## Foreign Keys

Name	Columns	Delete Rule	Update Rule
dependent_ibfk_1	id	N/S	N/S

### Depends On 1



## Used By 1

contract



The relationship between hospitals and the plans covered by each hospital.

### Columns

K	ey	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
0	E.	hos_id	INT		11		False	False	False	True	False		False	The id of the hospital
0		plan_id	INT		11		False	False	False	True	False		False	The id of the plan

## Foreign Keys

Name	Columns	Delete Rule	Update Rule
enrolled_ibfk_1	id	N/S	N/S
enrolled_ibfk_2	id	N/S	N/S

## Depends On 2







The hospitals contracted with the company.

### Columns

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
ę	id	INT		11		False	False	False	True	True		False	The id of the hospital
	name	VARCHAR	20			False	False	False	True	False		False	The name of the hospital
	address	VARCHAR	50			False	False	False	True	False		False	The Address of the hospital
	e_mail	VARCHAR	30			False	False	False	True	False		False	The official email address of the hospital
	phone	CHAR	11			False	False	False	True	False		False	The official telephone number of the hospital

Used By 2









The insurance plans offered by the company.

### Columns

Key	Name	Data Type	Length	Precision	Scale	Unsigned	Zerofill	Binary	Not Null	Auto Increment	Default	Virtual	Description
P	id	INT		11		False	False	False	True	True		False	The id of the plan
品	type	VARCHAR	20			False	False	False	True	False		False	The type (name) of the plan
	benefits	TEXT				False	False	False	True	False		False	The benefits offered by the plan
	price	DECIMAL		8	2	False	False	False	True	False		False	The price of the plan in Egyptian pounds

Used By 2





