PHARMACY MANAGEMENT SYSTEM

Group 8
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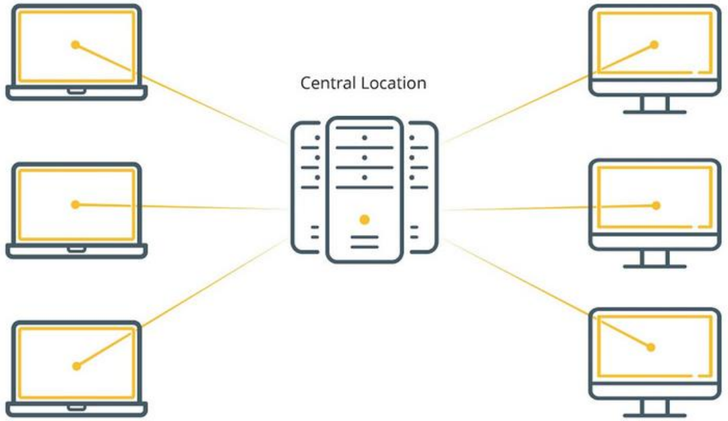
OBJECTIVE

Targets Bussiness Problem of Managing data for Pharmacy chains like CVS, wallgreens etc.



Centralized database for important activities like maintaining stocks, billing information etc.

Easy data storage and retrieval of historical data can be used for Decision Making

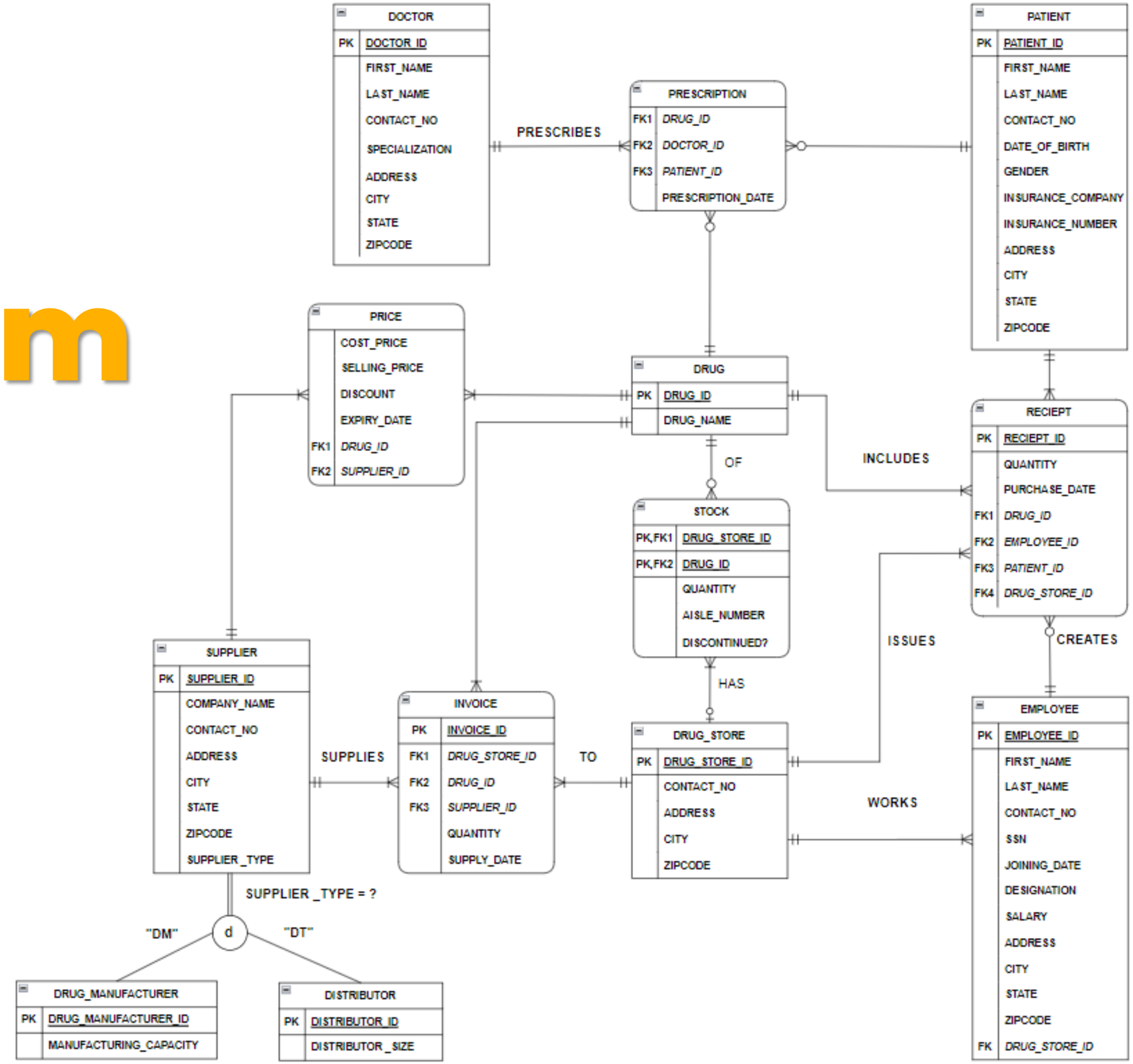
EER Diagram

13 Entities

17 Relationships

Mix of Cardinalities

- ✓ 1:1, 1:M, M:N
- ✓ Associative Entities
- ✓ Subtype-Supertype Hierarchy



SQL QUERIES

CREATE

```
CREATE TABLE [PATIENT]
(
[PATIENT_ID] INT NOT NULL PRIMARY KEY IDENTITY(1,1),
[FIRST_NAME] VARCHAR(50),
[LAST_NAME] VARCHAR(50),
[CONTACT_NO] BIGINT NOT NULL,
[DATE_OF_BIRTH] DATE,
[GENDER] VARCHAR (6),
[INSURANCE_COMPANY] VARCHAR(50),
[INSURANCE_NUMBER] VARCHAR(30),
[ADDRESS] VARCHAR(100),
[CITY] VARCHAR(30),
[STATE] CHAR(2),
[ZIPCODE] VARCHAR(10) NOT NULL
);
```

BULK INSERT

```
BULK INSERT PATIENT FROM 'C:\Users\DELL\Desktop\
SPRING 22\DAMG6210\DMDD project\DATA\PATIENT.csv'
WITH (
FIRSTROW = 2,
FIELDTERMINATOR = ',',
ROWTERMINATOR = '\n',
TABLOCK
);
```

ENCRYPTION

```
CREATE MASTER KEY
ENCRYPTION BY PASSWORD='PHARMACY_MANAGEMENT';
SELECT NAME KEYNAME,
SYMMETRIC_KEY_ID KEYID,
KEY_LENGTH KEYLENGTH,
algorithm_desc KeyAlgorithm
FROM sys.symmetric_keys;

ALTER TABLE [dbo].[EMPLOYEE] ADD USERNAME VARCHAR(50), [Password] VARBINARY(500)
SELECT * FROM [dbo].[EMPLOYEE]
CREATE CERTIFICATE EmpPass
 with SUBJECT='EMPLOYEE SAMPLE WORD';
 GO
 CREATE SYMMETRIC KEY EmpPass_SM
 WITH ALGORITHM = AES_256
 ENCRYPTION BY CERTIFICATE EmpPass
 OPEN SYMMETRIC KEY EmpPass_SM
 DECRYPTION BY CERTIFICATE EmpPass;
 UPDATE EMPLOYEE SET [USERNAME] = LAST_NAME,
[Password] = ENCRYPTBYKEY(KEY_GUID('EmpPass_SM'), CONVERT(VARBINARY,'Pass123'))
 OPEN SYMMETRIC KEY EmpPass_SM
 DECRYPTION BY CERTIFICATE EmpPass;
 SELECT*, CONVERT(VARCHAR,DECRYPTBYKEY([Password]))
 S 'Decrypted Password'
 FROM EMPLOYEE
 GO
SELECT * FROM [EMPLOYEE]
```

SQL QUERIES

TRIGGER

```
CREATE TRIGGER PRICE_DELETE ON PRICE
INSTEAD OF DELETE
AS
BEGIN
RAISERROR ('Notify Sales Team', 16, 10);
END;
DELETE FROM PRICE WHERE DRUG_ID = 1
```

```
Msg 50000, Level 16, State 10, Procedure PRICE_DELETE, Line 5 [Batch Start Line 263]
Notify Sales Team
```

UDF

TOTAL_PROFIT
16528.52

```
CREATE FUNCTION GetProfit (@employeeID VARCHAR(50))
RETURNS FLOAT
AS
BEGIN
DECLARE @totalprofit FLOAT
SELECT @totalprofit =
(SELECT SUM((p.SELLING_PRICE - p.COST_PRICE)*r.QUANTITY)
 AS [TOTAL_PROFIT]
FROM EMPLOYEE e
JOIN
RECIEPT r ON (e.EMPLOYEE_ID = r.EMPLOYEE_ID)
JOIN
PRICE p ON (p.DRUG_ID = r.DRUG_ID)
WHERE e.EMPLOYEE_ID = @employeeID
GROUP BY e.EMPLOYEE_ID)
RETURN  @totalprofit
END;
SELECT DBO.GetProfit (2) AS TOTAL_PROFIT;
```

STORED PROCEDURE

```
CREATE PROCEDURE GetEmployeeLessThanSalary @empSalary INT, @empCount
INT OUTPUT AS
BEGIN
SELECT FIRST_NAME, LAST_NAME
FROM EMPLOYEE
WHERE SALARY < @empSalary;
SELECT @empCount = @@ROWCOUNT;
END

DECLARE @count INT;
EXEC  GetEmployeeLessThanSalary  @empSalary  =  25,  @empCount  =  @count
OUTPUT;
SELECT @count AS 'Number of employees less than given salary';
```

Results | Messages

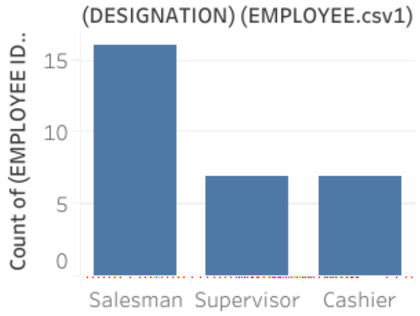
	FIRST_NAME	LAST_NAME
1	Cairo	Long
2	Warren	Whitley
3	Ryan	Newman
4	Avye	Lambert

	Number of employees less than given salary
1	4

VISUALIZATION

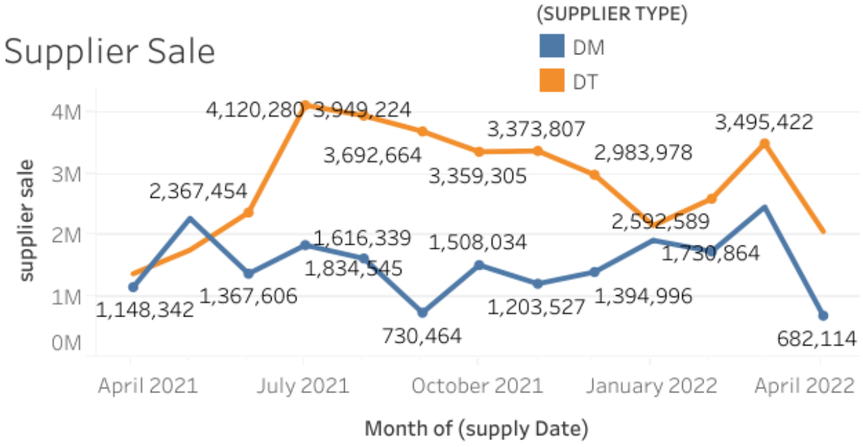
TABLEAU PUBLIC LINK

Designation-Wise Employee Count

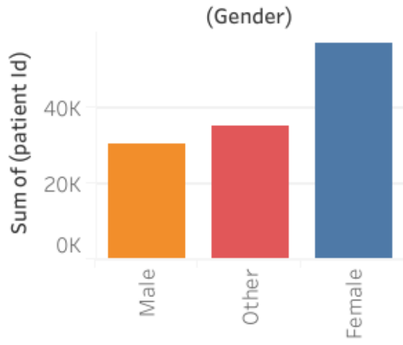


Profit Month-Wise

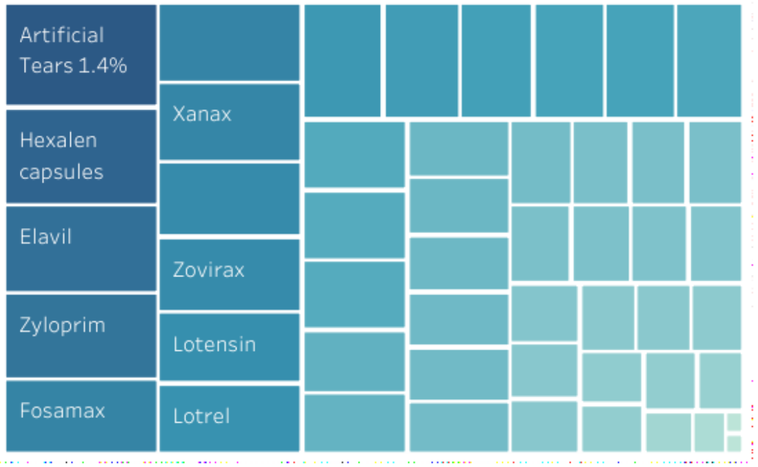
Supplier Sale



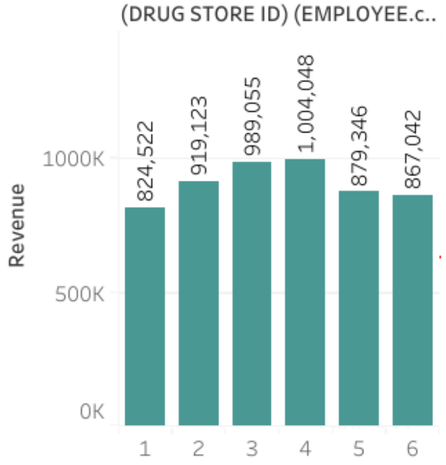
Gender-Wise Patients



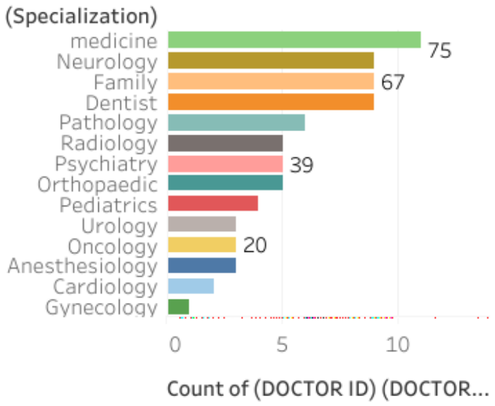
Drug Sale by Quantity



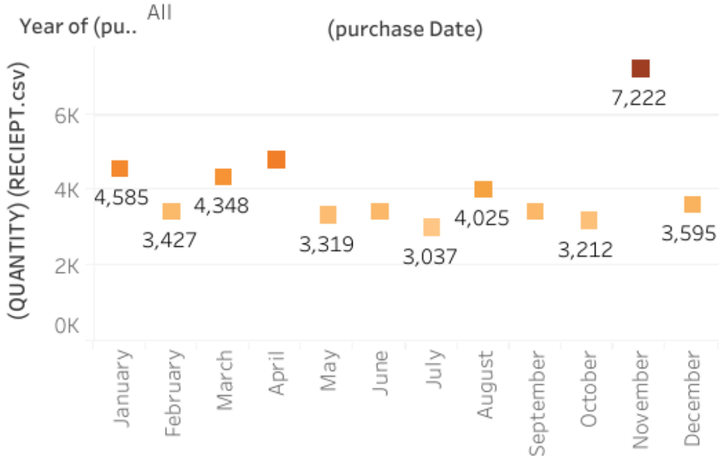
Drugstore-Wise Revenue



Specialization-Wise Doctor Count

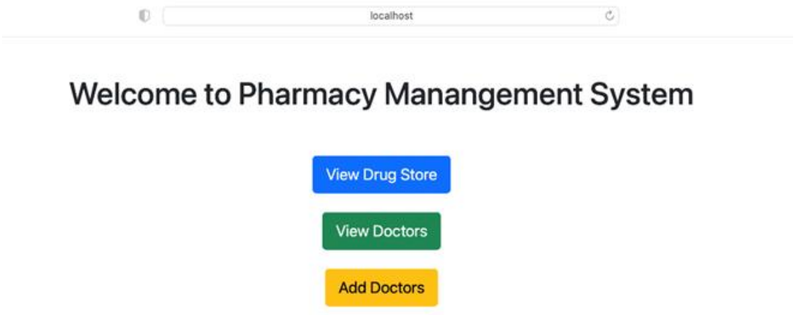


Monthly Sale by Quantity

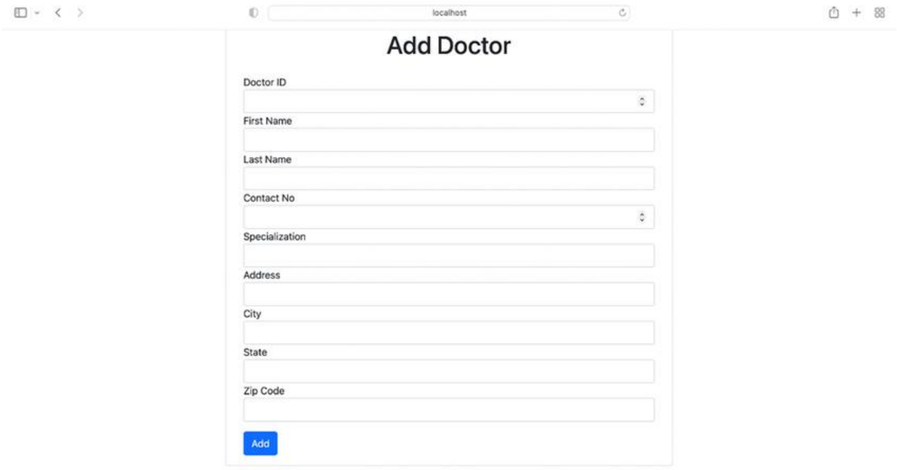


GUI

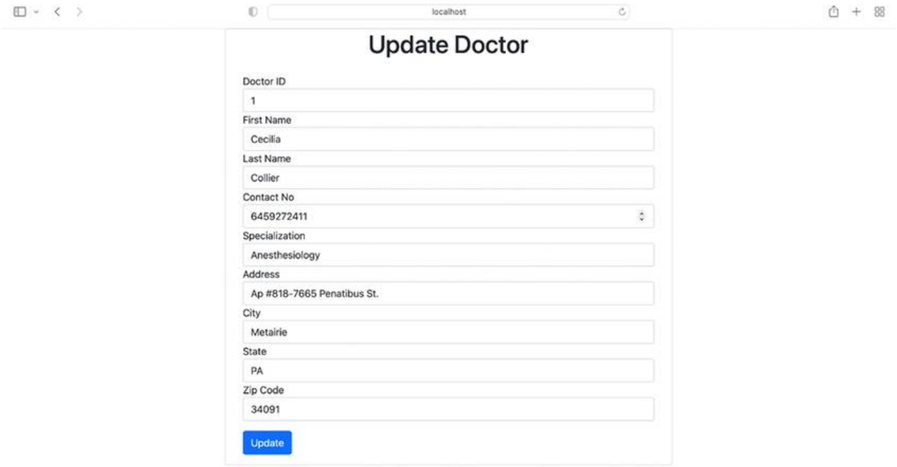
Home Page



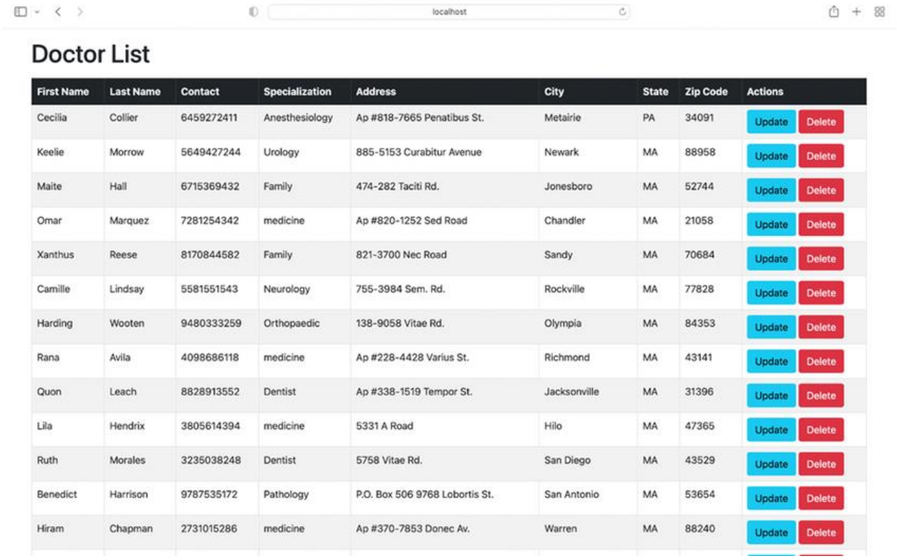
Insert



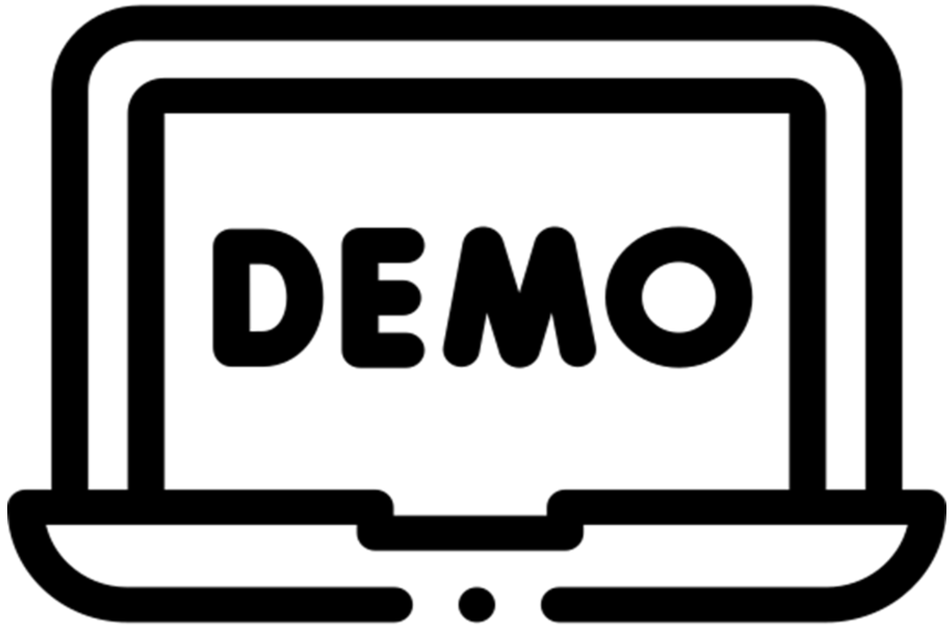
Update



View



First Name	Last Name	Contact	Specialization	Address	City	State	Zip Code	Actions
Cecilia	Collier	6459272411	Anesthesiology	Ap #818-7665 Penatibus St.	Metairie	PA	34091	Update Delete
Keelie	Morrow	5649427244	Urology	885-5153 Curabitur Avenue	Newark	MA	88958	Update Delete
Maite	Hall	6715369432	Family	474-282 Taciti Rd.	Jonesboro	MA	52744	Update Delete
Omar	Marquez	7281254342	medicine	Ap #820-1252 Sed Road	Chandler	MA	21058	Update Delete
Xanthus	Reese	8170844582	Family	821-3700 Nec Road	Sandy	MA	70684	Update Delete
Camille	Lindsay	5581551543	Neurology	755-3984 Sem. Rd.	Rockville	MA	77828	Update Delete
Harding	Wooten	9480333259	Orthopaedic	138-9058 Vitae Rd.	Olympia	MA	84353	Update Delete
Rana	Avila	4098686118	medicine	Ap #228-4428 Varius St.	Richmond	MA	43141	Update Delete
Quon	Leach	8828913552	Dentist	Ap #338-1519 Tempor St.	Jacksonville	MA	31396	Update Delete
Lila	Hendrix	3805614394	medicine	5331 A Road	Hilo	MA	47365	Update Delete
Ruth	Morales	3235038248	Dentist	5758 Vitae Rd.	San Diego	MA	43529	Update Delete
Benedict	Harrison	9787535172	Pathology	P.O. Box 506 9768 Lobortis St.	San Antonio	MA	53654	Update Delete
Hiram	Chapman	2731015286	medicine	Ap #370-7853 Donec Av.	Warren	MA	88240	Update Delete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