

Software Company Database

--Creating table

```
CREATE TABLE SoftwareCompany (  
    CompanyID INT PRIMARY KEY IDENTITY(1,1),  
    CompanyName NVARCHAR(100),  
    Address NVARCHAR(255),  
    City NVARCHAR(100),  
    Country NVARCHAR(100),  
    Email NVARCHAR(100),  
    Phone NVARCHAR(20)  
);
```

--Inserting values into tables

```
INSERT INTO SoftwareCompany (CompanyName, Address, City, Country, Email, Phone)  
VALUES  
  
    ('Tech Solutions Inc.', '123 Main Street', 'Anytown', 'USA',  
    'info@techsolutions.com', '(555) 123-4567'),  
  
    ('CodeCrafters Ltd.', '456 Elm Street', 'Othertown', 'UK',  
    'contact@codecrafters.com', '(123) 456-7890'),  
  
    ('SoftDev Technologies', '789 Oak Avenue', 'Sometown', 'Canada',  
    'info@softdevtech.com', '(987) 654-3210'),  
  
    ('ByteWise Solutions', '321 Pine Street', 'Anothercity', 'Australia',  
    'contact@bythewise.com', '(111) 222-3333'),  
  
    ('InnoSoft Innovations', '555 Maple Avenue', 'Newtown', 'Germany',  
    'info@innosoft.com', '(444) 555-6666'),  
  
    ('SmartCode Systems', '876 Cedar Street', 'Cityville', 'France',  
    'contact@smartcode.com', '(777) 888-9999'),  
  
    ('TechGenius Corp.', '234 Birch Avenue', 'Yourtown', 'Italy',  
    'info@techgenius.com', '(999) 888-7777'),  
  
    ('NexTech Solutions', '789 Walnut Street', 'Somecity', 'Spain',  
    'contact@nextech.com', '(666) 555-4444'),  
  
    ('Softify Inc.', '432 Pine Tree Lane', 'Anothertown', 'Japan', 'info@softify.com',  
    '(333) 222-1111'),  
  
    ('CodeMasters Ltd.', '567 Oak Tree Lane', 'Elsewhere', 'Brazil',  
    'contact@codemasters.com', '(222) 333-4444'),  
  
    ('SoftWorks LLC', '910 Elm Avenue', 'Citytown', 'Mexico', 'info@softworks.com',  
    '(111) 222-3333'),
```

('BlueTech Solutions', '123 Cedar Lane', 'Anycity', 'India',
'contact@bluetech.com', '(222) 333-4444'),

('SwiftCode Enterprises', '456 Maple Lane', 'Othercity', 'South Africa',
'info@swiftcode.com', '(333) 444-5555'),

('DataSoft Innovations', '789 Birch Lane', 'Somewhere', 'Netherlands',
'contact@datasoft.com', '(444) 555-6666'),

('Innovative Solutions', '123 Walnut Lane', 'Yourcity', 'Singapore',
'info@innovativesolutions.com', '(555) 666-7777'),

('SmartTech Inc.', '456 Oak Avenue', 'Anyplace', 'Russia',
'contact@smarttech.com', '(666) 777-8888'),

('TechMinds Ltd.', '789 Elm Lane', 'Anycity', 'China', 'info@techminds.com',
'(777) 888-9999'),

('DataWave Systems', '123 Maple Street', 'Newcity', 'Sweden',
'contact@datawave.com', '(888) 999-0000'),

('CodeCrafters Inc.', '456 Cedar Street', 'Othertown', 'Germany',
'info@codecraftersinc.com', '(999) 000-1111'),

('SoftSolutions Corp.', '789 Oak Lane', 'Anytown', 'Canada',
'contact@softsolutions.com', '(000) 111-2222'),

('TechWizards Ltd.', '123 Pine Street', 'Sometown', 'UK', 'info@techwizards.com',
'(111) 222-3333'),

('DataGenius Solutions', '456 Birch Lane', 'Somecity', 'Australia',
'contact@datagenius.com', '(222) 333-4444'),

('SmartCode Innovations', '789 Walnut Lane', 'Cityville', 'France',
'info@smartcodeinnovations.com', '(333) 444-5555'),

('InnoSoft Technologies', '123 Cedar Avenue', 'Yourtown', 'Italy',
'contact@innosofttech.com', '(444) 555-6666'),

('ByteWise Systems', '456 Elm Lane', 'Newtown', 'Spain', 'info@bythewise.com',
'(555) 666-7777'),

('SoftDev Enterprises', '789 Maple Avenue', 'Somewhere', 'Japan',
'contact@softdeventerprises.com', '(666) 777-8888'),

('TechGenius Innovations', '123 Birch Lane', 'Elsewhere', 'Brazil',
'info@techgeniusinnovations.com', '(777) 888-9999'),

('NexTech Ltd.', '456 Oak Avenue', 'Citytown', 'Mexico', 'contact@nextechltd.com',
'(888) 999-0000'),

('BlueTech Inc.', '789 Pine Lane', 'Anycity', 'India', 'info@bluetechinc.com',
'(999) 000-1111'),

('SwiftCode Solutions', '123 Cedar Lane', 'Othercity', 'South Africa',
'contact@swiftcodesolutions.com', '(000) 111-2222'),

('DataSoft Enterprises', '456 Maple Street', 'Yourcity', 'Netherlands',
'info@datasoftenterprises.com', '(111) 222-3333'),

('InnovativeTech Inc.', '789 Elm Avenue', 'Anyplace', 'Singapore',
'contact@innovativetechinc.com', '(222) 333-4444'),

('SmartTech Solutions', '123 Oak Lane', 'Anycity', 'Russia',
'info@smarttechsolutions.com', '(333) 444-5555'),

```

('TechMinds Innovations', '456 Walnut Lane', 'Newcity', 'China',
'contact@techmindsinnovations.com', '(444) 555-6666'),

('DataWave Ltd.', '789 Cedar Avenue', 'Othertown', 'Sweden',
'info@datawaveltltd.com', '(555) 666-7777'),

('CodeCrafters Solutions', '123 Pine Lane', 'Anytown', 'UK',
'contact@codecrafterssolutions.com', '(666) 777-8888'),

('SoftSolutions Innovations', '456 Elm Street', 'Sometown', 'Australia',
'info@softsolutionsinnovations.com', '(777) 888-9999'),

('TechWizards Corp.', '789 Cedar Lane', 'Somecity', 'France',
'contact@techwizardscorp.com', '(888) 999-0000'),

('DataGenius Ltd.', '123 Birch Avenue', 'Cityville', 'Italy',
'info@datageniustltd.com', '(999) 000-1111'),

('SmartCode Systems', '456 Pine Lane', 'Yourtown', 'Spain',
'contact@smartcodesystems.com', '(000) 111-2222'),

('InnoSoft Ltd.', '789 Oak Street', 'Elsewhere', 'Japan', 'info@innosoftltd.com',
'(111) 222-3333'),

('ByteWise Innovations', '123 Maple Lane', 'Citytown', 'Brazil',
'contact@bythewiseinnovations.com', '(222) 333-4444');

```

```
--display columns
```

```
SELECT * FROM SoftwareCompany;
```

	CompanyID	CompanyName	Address	City	Country	Email	Phone
1	1	Tech Solutions Inc.	123 Main Street	Anytown	USA	new_email@example.com	(555) 123-4567
2	3	SoftDev Technologies	789 Oak Avenue	Sometown	Canada	info@softdevtech.com	(987) 654-3210
3	4	ByteWise Solutions	321 Pine Street	Anothercity	Australia	contact@bythewise.com	(111) 222-3333
4	5	InnoSoft Innovations	555 Maple Avenue	Newtown	Germany	info@innosoft.com	(444) 555-6666
5	6	SmartCode Systems	876 Cedar Street	Cityville	France	contact@smartcode.com	(777) 888-9999
6	7	TechGenius Corp.	234 Birch Avenue	Yourtown	Italy	info@techgenius.com	(999) 888-7777
7	8	NexTech Solutions	789 Walnut Street	Somecity	Spain	contact@nextech.com	(666) 555-4444
8	9	Softify Inc.	432 Pine Tree Lane	Anotherstown	Japan	info@softify.com	(333) 222-1111
9	10	CodeMasters Ltd.	567 Oak Tree Lane	Elsewhere	Brazil	contact@codemasters.com	(222) 333-4444
10	11	SoftWorks LLC	910 Elm Avenue	Citytown	Mexico	info@softworks.com	(111) 222-3333
11	12	BlueTech Solutions	123 Cedar Lane	Anycity	India	contact@bluetech.com	(222) 333-4444

```
--Retrieve Specific Columns for All Companies
```

```
SELECT CompanyName, Country, Email FROM SoftwareCompany;
```

	CompanyName	Country	Email
1	Tech Solutions Inc.	USA	new_email@example.com
2	SoftDev Technologies	Canada	info@softdevtech.com
3	ByteWise Solutions	Australia	contact@bythewise.com
4	InnoSoft Innovations	Germany	info@innosoft.com
5	SmartCode Systems	France	contact@smartcode.com
6	TechGenius Corp.	Italy	info@techgenius.com
7	NexTech Solutions	Spain	contact@nextech.com
8	Softify Inc.	Japan	info@softify.com
9	CodeMasters Ltd.	Brazil	contact@codemasters.com
10	SoftWorks LLC	Mexico	info@softworks.com
11	BlueTech Solutions	India	contact@bluetech.com

--Filter Companies by Country(It displays the companies with country as Japan)

```
SELECT * FROM SoftwareCompany WHERE Country='Japan';
```

	CompanyID	CompanyName	Address	City	Country	Email	Phone
1	9	Softify Inc.	432 Pine Tree Lane	Anothertown	Japan	info@softify.com	(333) 222-1111
2	26	SoftDev Enterprises	789 Maple Avenue	Somewhere	Japan	contact@softdeventerprises.com	(666) 777-8888
3	41	InnoSoft Ltd.	789 Oak Street	Elsewhere	Japan	info@innosoftltd.com	(111) 222-3333

--Count the Number of Companies in Each Country

```
SELECT Country, COUNT(*) AS CompanyCount FROM SoftwareCompany GROUP BY Country;
```

	Country	CompanyCount
1	Australia	3
2	Brazil	3
3	Canada	2
4	China	2
5	France	3
6	Germany	2
7	India	2
8	Italy	3
9	Japan	3
10	Mexico	2
11	Netherlands	2

--Update Company Email Address

```
UPDATE SoftwareCompany SET Email='new_email@example.com' WHERE CompanyName='Tech Solutions Inc.';
```

--Delete a Company

```
DELETE FROM SoftwareCompany WHERE CompanyName='CodeCrafters Ltd.';
```

--Find Companies with Email Addresses Containing 'tech'

```
SELECT * FROM SoftwareCompany WHERE Email LIKE '%tech%';
```

	CompanyID	CompanyName	Address	City	Country	Email	Phone
1	3	SoftDev Technologies	789 Oak Avenue	Sometown	Canada	info@softdevtech.com	(987) 654-3210
2	7	TechGenius Corp.	234 Birch Avenue	Yourtown	Italy	info@techgenius.com	(999) 888-7777
3	8	NexTech Solutions	789 Walnut Street	Somecity	Spain	contact@nextech.com	(666) 555-4444
4	12	BlueTech Solutions	123 Cedar Lane	Anycity	India	contact@bluetech.com	(222) 333-4444
5	16	SmartTech Inc.	456 Oak Avenue	Anyplace	Russia	contact@smarttech.com	(666) 777-8888
6	17	TechMinds Ltd.	789 Elm Lane	Anycity	China	info@techminds.com	(777) 888-9999
7	21	TechWizards Ltd.	123 Pine Street	Sometown	UK	info@techwizards.com	(111) 222-3333
8	24	InnoSoft Technologies	123 Cedar Avenue	Yourtown	Italy	contact@innosofttech.com	(444) 555-6666
9	27	TechGenius Innovations	123 Birch Lane	Elsewhere	Brazil	info@techgeniusinnovations.com	(777) 888-9999
10	28	NexTech Ltd.	456 Oak Avenue	Citytown	Mexico	contact@nextechltd.com	(888) 999-0000
11	29	BlueTech Inc.	789 Pine Lane	Anycity	India	info@bluetechinc.com	(999) 000-1111

--Order Companies by Name

```
SELECT * FROM SoftwareCompany ORDER BY CompanyName;
```

	CompanyID	CompanyName	Address	City	Country	Email	Phone
1	29	BlueTech Inc.	789 Pine Lane	Anycity	India	info@bluetechinc.com	(999) 000-1111
2	12	BlueTech Solutions	123 Cedar Lane	Anycity	India	contact@bluetech.com	(222) 333-4444
3	42	ByteWise Innovations	123 Maple Lane	Citytown	Brazil	contact@bythewiseinnovations.com	(222) 333-4444
4	4	ByteWise Solutions	321 Pine Street	Anothercity	Australia	contact@bythewise.com	(111) 222-3333
5	25	ByteWise Systems	456 Elm Lane	Newtown	Spain	info@bythewise.com	(555) 666-7777
6	19	CodeCrafters Inc.	456 Cedar Street	Othertown	Germany	info@codecraftersinc.com	(999) 000-1111
7	36	CodeCrafters Solutions	123 Pine Lane	Anytown	UK	contact@codecrafterssolutions.com	(666) 777-8888
8	10	CodeMasters Ltd.	567 Oak Tree Lane	Elsewhere	Brazil	contact@codemasters.com	(222) 333-4444
9	39	DataGenius Ltd.	123 Birch Avenue	Cityville	Italy	info@datageniusltd.com	(999) 000-1111
10	22	DataGenius Solutions	456 Birch Lane	Somecity	Australia	contact@datagenius.com	(222) 333-4444
11	31	DataSoft Enterprises	456 Maple Street	Yourcity	Netherlands	info@datasoftenterprises.com	(111) 222-3333

--Concatenate Address Fields

```
SELECT CompanyName, CONCAT(Address, ', ', City, ', ', Country) AS FullAddress FROM SoftwareCompany;
```

	CompanyName	FullAddress
1	Tech Solutions Inc.	123 Main Street, Anytown, USA
2	SoftDev Technologies	789 Oak Avenue, Sometown, Canada
3	ByteWise Solutions	321 Pine Street, Anothercity, Australia
4	InnoSoft Innovations	555 Maple Avenue, Newtown, Germany
5	SmartCode Systems	876 Cedar Street, Cityville, France
6	TechGenius Corp.	234 Birch Avenue, Yourtown, Italy
7	NexTech Solutions	789 Walnut Street, Somecity, Spain
8	Softify Inc.	432 Pine Tree Lane, Anotherstown, Japan
9	CodeMasters Ltd.	567 Oak Tree Lane, Elsewhere, Brazil
10	SoftWorks LLC	910 Elm Avenue, Citytown, Mexico
11	BlueTech Solutions	123 Cedar Lane, Anycity, India

--Find Companies with Names Starting with 'T'

```
SELECT * FROM SoftwareCompany WHERE CompanyName LIKE 'T%';
```

	CompanyID	CompanyName	Address	City	Country	Email	Phone
1	1	Tech Solutions Inc.	123 Main Street	Anytown	USA	new_email@example.com	(555) 123-4567
2	7	TechGenius Corp.	234 Birch Avenue	Yourtown	Italy	info@techgenius.com	(999) 888-7777
3	17	TechMinds Ltd.	789 Elm Lane	Anycity	China	info@techminds.com	(777) 888-9999
4	21	TechWizards Ltd.	123 Pine Street	Sometown	UK	info@techwizards.com	(111) 222-3333
5	27	TechGenius Innovations	123 Birch Lane	Elsewhere	Brazil	info@techgeniusinnovations.com	(777) 888-9999
6	34	TechMinds Innovations	456 Walnut Lane	Newcity	China	contact@techmindsinnovations.com	(444) 555-6666
7	38	TechWizards Corp.	789 Cedar Lane	Somecity	France	contact@techwizardscorp.com	(888) 999-0000

--Retrieve Companies with Null Email Addresses

```
SELECT * FROM SoftwareCompany WHERE Email IS NULL;
```


--Calculate Total Number of Companies

SELECT COUNT(*) AS TotalCompanies FROM SoftwareCompany;

	TotalCompanies
1	41

--Find Companies Located in Specific Cities

SELECT * FROM SoftwareCompany WHERE City IN('Anytown', 'Sometown', 'Othertown');

	CompanyID	CompanyName	Address	City	Country	Email	Phone
1	1	Tech Solutions Inc.	123 Main Street	Anytown	USA	new_email@example.com	(555) 123-4567
2	3	SoftDev Technologies	789 Oak Avenue	Sometown	Canada	info@softdevtech.com	(987) 654-3210
3	19	CodeCrafters Inc.	456 Cedar Street	Othertown	Germany	info@codecraftersinc.com	(999) 000-1111
4	20	SoftSolutions Corp.	789 Oak Lane	Anytown	Canada	contact@softsolutions.com	(000) 111-2222
5	21	TechWizards Ltd.	123 Pine Street	Sometown	UK	info@techwizards.com	(111) 222-3333
6	35	DataWave Ltd.	789 Cedar Avenue	Othertown	Sweden	info@datawaveltld.com	(555) 666-7777
7	36	CodeCrafters Solutions	123 Pine Lane	Anytown	UK	contact@codecrafterssolutions.com	(666) 777-8888
8	37	SoftSolutions Innovations	456 Elm Street	Sometown	Australia	info@softsolutionsinnovations.com	(777) 888-9999