

```
CREATE DATABASE SoftwareHouse;
USE SoftwareHouse;
SET SQL_SAFE_UPDATES = 0;
```

#-----% Table Creation %

### CREATE TABLE Client (

```
ClientID          INT          NOT NULL ,
FirstName         VARCHAR(255)  NOT NULL,
LastName         VARCHAR(255)  NOT NULL,
Email            VARCHAR(255)  NOT NULL,
Phone            VARCHAR(255)  NOT NULL,
Address          VARCHAR(255)  NOT NULL,
PRIMARY KEY (ClientID)
);
```

Field	Type	Null	Key	Default	Extra
ClientID	int	NO	PRI	NULL	
FirstName	varchar(255)	NO		NULL	
LastName	varchar(255)	NO		NULL	
Email	varchar(255)	NO		NULL	
Phone	varchar(255)	NO		NULL	
Address	varchar(255)	NO		NULL	

### CREATE TABLE Employee (

```
EmployeeID       INT          NOT NULL ,
FirstName         VARCHAR(255)  NOT NULL,
LastName         VARCHAR(255)  NOT NULL,
Email            VARCHAR(255)  NOT NULL,
Phone            VARCHAR(255)  NOT NULL,
Address          VARCHAR(255)  NOT NULL,
HireDate         DATE          NOT NULL,
Salary           INT           NOT NULL,
PRIMARY KEY (EmployeeID)
);
```

Field	Type	Null	Key	Default	Extra
EmployeeID	int	NO	PRI	NULL	
FirstName	varchar(255)	NO		NULL	
LastName	varchar(255)	NO		NULL	
Email	varchar(255)	NO		NULL	
Phone	varchar(255)	NO		NULL	
Address	varchar(255)	NO		NULL	
HireDate	date	NO		NULL	
Salary	int	NO		NULL	

### CREATE TABLE Project (

ProjectID	INT	NOT NULL ,
Title	VARCHAR(255)	NOT NULL,
Description	VARCHAR(255)	NOT NULL,
StartDate	DATE	NOT NULL,
EndDate	DATE	NOT NULL,
PRIMARY KEY (ProjectID)		

);



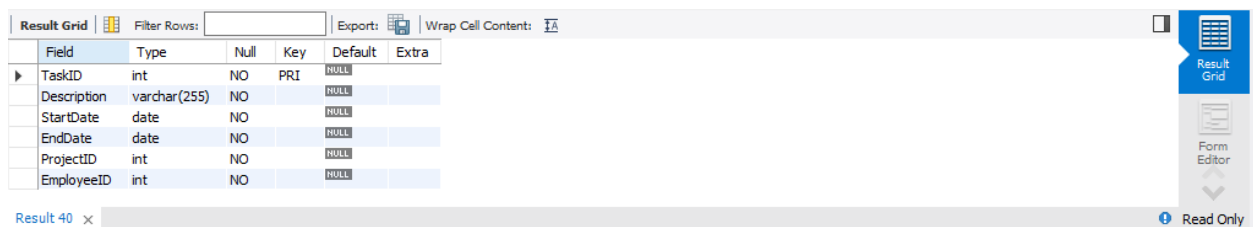
The screenshot shows the 'Result Grid' window in SQL Server Enterprise Manager. It displays the structure of the 'Project' table with the following columns: Field, Type, Null, Key, Default, and Extra. The table has five fields: ProjectID (int, NOT NULL, PRIMARY KEY), Title (varchar(255), NOT NULL), Description (varchar(255), NOT NULL), StartDate (date, NOT NULL), and EndDate (date, NOT NULL). The status bar at the bottom indicates 'Result 37' and 'Read Only'.

Field	Type	Null	Key	Default	Extra
ProjectID	int	NO	PRI	NULL	
Title	varchar(255)	NO		NULL	
Description	varchar(255)	NO		NULL	
StartDate	date	NO		NULL	
EndDate	date	NO		NULL	

### CREATE TABLE Task (

TaskID	INT	NOT NULL ,
Description	VARCHAR(255)	NOT NULL,
StartDate	DATE	NOT NULL,
EndDate	DATE	NOT NULL,
PRIMARY KEY (TaskID)		

);



The screenshot shows the 'Result Grid' window in SQL Server Enterprise Manager. It displays the structure of the 'Task' table with the following columns: Field, Type, Null, Key, Default, and Extra. The table has five fields: TaskID (int, NOT NULL, PRIMARY KEY), Description (varchar(255), NOT NULL), StartDate (date, NOT NULL), EndDate (date, NOT NULL), and ProjectID (int, NOT NULL). There is also an EmployeeID field (int, NOT NULL). The status bar at the bottom indicates 'Result 40' and 'Read Only'.

Field	Type	Null	Key	Default	Extra
TaskID	int	NO	PRI	NULL	
Description	varchar(255)	NO		NULL	
StartDate	date	NO		NULL	
EndDate	date	NO		NULL	
ProjectID	int	NO		NULL	
EmployeeID	int	NO		NULL	

### CREATE TABLE Service (

ServiceID	INT	NOT NULL,
Name	VARCHAR(255)	NOT NULL,
Description	VARCHAR(255)	NOT NULL,
PRIMARY KEY (ServiceID)		

);



The screenshot shows the 'Result Grid' window in SQL Server Enterprise Manager. It displays the structure of the 'Service' table with the following columns: Field, Type, Null, Key, Default, and Extra. The table has three fields: ServiceID (int, NOT NULL, PRIMARY KEY), Name (varchar(255), NOT NULL), and Description (varchar(255), NOT NULL). The status bar at the bottom indicates 'Result 39' and 'Read Only'.

Field	Type	Null	Key	Default	Extra
ServiceID	int	NO	PRI	NULL	auto_increment
Name	varchar(255)	NO		NULL	
Description	varchar(255)	NO		NULL	

### CREATE TABLE Contract (

ContractID	INT	NOT NULL ,
StartDate	DATE	NOT NULL,
EndDate	DATE	NOT NULL,
TermsAndConditions	VARCHAR(255)	NOT NULL,
PRIMARY KEY (ContractID)		

);

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
ContractID	int	NO	PRI	NULL	
StartDate	date	NO		NULL	
EndDate	date	NO		NULL	
TermsAndConditions	varchar(255)	NO		NULL	

Result 47

Read Only

### CREATE TABLE Payment (

PaymentID	INT	NOT NULL ,
Amount	INT	NOT NULL,
PaymentDate	DATE	NOT NULL,
PRIMARY KEY (PaymentID)		

);

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

⌵

Field	Type	Null	Key	Default	Extra
▶ PaymentID	int	NO	PRI	NULL	
Amount	int	NO		NULL	
PaymentDate	date	NO		NULL	

Result Grid

Result 51 x

!

Read Only

#-----% Adding Foreign Keys %

### ALTER TABLE Project

ADD ClientID INT,  
ADD FOREIGN KEY (ClientID)  
REFERENCES Client (ClientID)  
ON DELETE CASCADE  
ON UPDATE CASCADE;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

⌵

Field	Type	Null	Key	Default	Extra
ProjectID	int	NO	PRI	NULL	
Title	varchar(255)	NO		NULL	
Description	varchar(255)	NO		NULL	
StartDate	date	NO		NULL	
EndDate	date	NO		NULL	
ClientID	int	YES	MUL	NULL	

Result 43

×

Result Grid

Form Editor

⌵

Read Only

### ALTER TABLE Task

ADD ProjectID INT,  
ADD FOREIGN KEY (ProjectID)  
REFERENCES Project (ProjectID)  
ON DELETE CASCADE  
ON UPDATE CASCADE;

Field	Type	Null	Key	Default	Extra
TaskID	int	NO	PRI	NULL	
Description	varchar(255)	NO		NULL	
StartDate	date	NO		NULL	
EndDate	date	NO		NULL	
ProjectID	int	YES	MUL	NULL	

### ALTER TABLE Task

ADD EmployeeID INT,  
ADD FOREIGN KEY (EmployeeID)  
REFERENCES Employee (EmployeeID)  
ON DELETE CASCADE  
ON UPDATE CASCADE;

Field	Type	Null	Key	Default	Extra
TaskID	int	NO	PRI	NULL	
Description	varchar(255)	NO		NULL	
StartDate	date	NO		NULL	
EndDate	date	NO		NULL	
ProjectID	int	YES	MUL	NULL	
EmployeeID	int	YES	MUL	NULL	

### ALTER TABLE Contract

ADD ServiceID INT,  
ADD FOREIGN KEY (ServiceID)  
REFERENCES Service (ServiceID)  
ON DELETE CASCADE  
ON UPDATE CASCADE;

Field	Type	Null	Key	Default	Extra
ContractID	int	NO	PRI	NULL	
StartDate	date	NO		NULL	
EndDate	date	NO		NULL	
TermsAndConditions	varchar(255)	NO		NULL	
ServiceID	int	YES	MUL	NULL	

### ALTER TABLE Contract

ADD ClientID INT

ADD FOREIGN KEY (ClientID)

REFERENCES Client (ClientID)

ON DELETE CASCADE

ON UPDATE CASCADE;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

⌵

Field	Type	Null	Key	Default	Extra
ContractID	int	NO	PRI	NULL	
StartDate	date	NO		NULL	
EndDate	date	NO		NULL	
TermsAndConditions	varchar(255)	NO		NULL	
ServiceID	int	YES	MUL	NULL	
ClientID	int	YES	MUL	NULL	

Result 49

×

Read Only

Result Grid

Form Editor

### ALTER TABLE Contract

ADD EmployeeID INT

ADD FOREIGN KEY (EmployeeID)

REFERENCES Employee (EmployeeID)

ON DELETE CASCADE

ON UPDATE CASCADE;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

IA

Field	Type	Null	Key	Default	Extra
ContractID	int	NO	PRI	NULL	
StartDate	date	NO		NULL	
EndDate	date	NO		NULL	
TermsAndConditions	varchar(255)	NO		NULL	
ServiceID	int	YES	MUL	NULL	
ClientID	int	YES	MUL	NULL	
EmployeeID	int	YES	MUL	NULL	

Result 50

Result Grid

Form Editor

Read Only

### ALTER TABLE Payment

ADD ContractID INT,

ADD FOREIGN KEY (ContractID)

REFERENCES Contract (ContractID)

ON DELETE CASCADE

ON UPDATE CASCADE;

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

Field	Type	Null	Key	Default	Extra
PaymentID	int	NO	PRI	NULL	
Amount	int	NO		NULL	
PaymentDate	date	NO		NULL	
ContractID	int	YES	MUL	NULL	

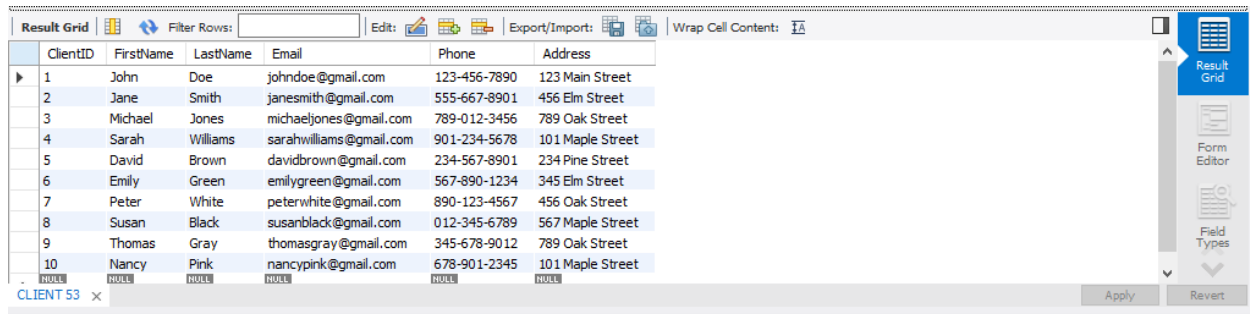
Result 52

Read Only

#-----% Inserting Data %

**INSERT INTO Client (ClientID, FirstName, LastName, Email, Phone, Address)**  
**VALUES**

(1, 'John', 'Doe', 'johndoe@gmail.com', '123-456-7890', '123 Main Street'),  
(2, 'Jane', 'Smith', 'janesmith@gmail.com', '555-667-8901', '456 Elm Street'),  
(3, 'Michael', 'Jones', 'michaeljones@gmail.com', '789-012-3456', '789 Oak Street'),  
(4, 'Sarah', 'Williams', 'sarahwilliams@gmail.com', '901-234-5678', '101 Maple Street'),  
(5, 'David', 'Brown', 'davidbrown@gmail.com', '234-567-8901', '234 Pine Street'),  
(6, 'Emily', 'Green', 'emilygreen@gmail.com', '567-890-1234', '345 Elm Street'),  
(7, 'Peter', 'White', 'peterwhite@gmail.com', '890-123-4567', '456 Oak Street'),  
(8, 'Susan', 'Black', 'susanblack@gmail.com', '012-345-6789', '567 Maple Street'),  
(9, 'Thomas', 'Gray', 'thomasgray@gmail.com', '345-678-9012', '789 Oak Street'),  
(10, 'Nancy', 'Pink', 'nancypink@gmail.com', '678-901-2345', '101 Maple Street');



ClientID	FirstName	LastName	Email	Phone	Address
1	John	Doe	johndoe@gmail.com	123-456-7890	123 Main Street
2	Jane	Smith	janesmith@gmail.com	555-667-8901	456 Elm Street
3	Michael	Jones	michaeljones@gmail.com	789-012-3456	789 Oak Street
4	Sarah	Williams	sarahwilliams@gmail.com	901-234-5678	101 Maple Street
5	David	Brown	davidbrown@gmail.com	234-567-8901	234 Pine Street
6	Emily	Green	emilygreen@gmail.com	567-890-1234	345 Elm Street
7	Peter	White	peterwhite@gmail.com	890-123-4567	456 Oak Street
8	Susan	Black	susanblack@gmail.com	012-345-6789	567 Maple Street
9	Thomas	Gray	thomasgray@gmail.com	345-678-9012	789 Oak Street
10	Nancy	Pink	nancypink@gmail.com	678-901-2345	101 Maple Street

**INSERT INTO Employee (EmployeeID, FirstName, LastName, Email, Phone, Address, HireDate, Salary)**

**VALUES**

(1, "John", "Doe", "johndoe@example.com", "555-555-1212", "21 Oslo St", "2022-02-01", 52000),  
(2, "Jane", "Doe", "janedoe@example.com", "555-555-1212", "23 Greenfield Rd", "2021-04-01", 55000),  
(3, "Bob", "Smith", "bobsmith@example.com", "555-555-1212", "143 Main St", "2009-01-01", 80000),  
(4, "Sue", "Johnson", "suejohnson@example.com", "555-555-1212", "113 Main Rd", "2021-11-01", 60000),  
(5, "Mike", "Brown", "mikebrown@example.com", "555-555-1212", "21 Main Victoria Rd", "2007-11-01", 90000),  
(6, "Mary", "Jones", "maryjones@example.com", "555-555-1212", "87 Victoria St", "2018-10-01", 10000),  
(7, "Tom", "Wilson", "tomwilson@example.com", "555-555-1212", "122 Main Rd", "2023-08-01", 30000),  
(8, "Lisa", "Davis", "lisadavis@example.com", "555-555-1212", "123 Victoria Road", "2021/03/01", "40000"),

```
(9,"Bill","Miller","billmiller@example.com","555.555.1212","139 Main
St","2012/08/01","50000"),
(10,"Karen","Taylor","karentaylor@example.com","555.555.1212","256 Victoria
St","2020/05/01","20000");
```

EmployeeID	FirstName	LastName	Email	Phone	Address	HireDate	Salary
1	John	Doe	john.doe@example.com	555-555-1212	21 Oslo St	2022-02-01	52000
2	Jane	Doe	janedoe@example.com	555-555-1212	23 Greenfield Rd	2021-04-01	55000
3	Bob	Smith	bobsmith@example.com	555-555-1212	143 Main St	2009-01-01	80000
4	Sue	Johnson	suejohnson@example.com	555-555-1212	113 Main Rd	2021-11-01	60000
5	Mike	Brown	mikebrown@example.com	555-555-1212	21 Main Victoria Rd	2007-11-01	90000
6	Mary	Jones	maryjones@example.com	555-555-1212	87 Victoria St	2018-10-01	10000
7	Tom	Wilson	tomwilson@example.com	555-555-1212	122 Main Rd	2023-08-01	30000
8	Lisa	Davis	lisadavis@example.com	555-555-1212	123 Victoria Road	2021-03-01	40000
9	Bill	Miller	billmiller@example.com	555.555.1212	139 Main St	2012-08-01	50000
10	Karen	Taylor	karentaylor@example.com	555.555.1212	256 Victoria St	2020-05-01	20000

## INSERT INTO Project (ProjectID, Title, Description, StartDate, EndDate, ClientID) VALUES

```
(1, 'Inventory Manager', 'Develop a new software application to manage inventory.',
'2023-01-01', '2023-03-01', 1),
(2, 'Website Development', 'Design and build a new website to promote products and
services.', '2023-02-01', '2023-04-01', 2),
(3, 'Marketing Campaign', 'Implement a new marketing campaign using print, online, and social
media.', '2023-03-01', '2023-05-01', 3),
(4, 'Market Research', 'Conduct market research to understand target market and needs.',
'2023-04-01', '2023-06-01', 4),
(5, 'White Paper', 'Write a white paper to educate customers about new technology.',
'2023-05-01', '2023-07-01', 5),
(6, 'Training Program', 'Create a new training program to train employees on new software
application.', '2023-06-01', '2023-08-01', 6),
(7, 'Product', 'Develop a new product to solve a specific problem.', '2023-07-01', '2023-09-01',
7),
(8, 'Customer Support', 'Provide customer support via phone, email, and chat.', '2023-08-01',
'2023-10-01', 8),
(9, 'Management', 'Manage a project to develop new software application.', '2023-09-01',
'2023-11-01', 9),
(10, 'Website', 'Deliver a project on time and within budget to develop new website.',
'2023-10-01', '2023-12-01', 10);
```

ProjectID	Title	Description	StartDate	EndDate	ClientID
1	Inventory Manager	Develop a new software application to manage i...	2023-01-01	2023-03-01	1
2	Website Development	Design and build a new website to promote pro...	2023-02-01	2023-04-01	2
3	Marketing Campaign	Implement a new marketing campaign using prin...	2023-03-01	2023-05-01	3
4	Market Research	Conduct market research to understand target ...	2023-04-01	2023-06-01	4
5	White Paper	Write a white paper to educate customers abou...	2023-05-01	2023-07-01	5
6	Training Program	Create a new training program to train employe...	2023-06-01	2023-08-01	6
7	Product	Develop a new product to solve a specific probl...	2023-07-01	2023-09-01	7
8	Customer Support	Provide a new product to solve a specific problem.	2023-08-01	2023-10-01	8
9	Management	Manage a project to develop new software appl...	2023-09-01	2023-11-01	9
10	Website	Deliver a project on time and within budget to d...	2023-10-01	2023-12-01	10

# INSERT INTO Task (TaskID, Description, StartDate, EndDate, ProjectID, EmployeeID) VALUES

```

(1, 'Develop the user interface.', '2023-01-01', '2023-03-01', 1, 1),
(2, 'Develop the database.', '2023-02-01', '2023-04-01', 1, 2),
(3, 'Implement the user stories.', '2023-03-01', '2023-05-01', 1, 3),
(4, 'Write the unit tests.', '2023-04-01', '2023-06-01', 1, 4),
(5, 'Integrate the modules.', '2023-05-01', '2023-07-01', 1, 5),
(6, 'Deploy the application.', '2023-06-01', '2023-08-01', 1, 6),
(7, 'Test the application.', '2023-07-01', '2023-09-01', 1, 7),
(8, 'Fix bugs.', '2023-08-01', '2023-10-01', 1, 8),
(9, 'Release the application.', '2023-09-01', '2023-11-01', 1, 9),
(10, 'Provide support to users.', '2023-10-01', '2023-12-01', 1, 10);

```

TaskID	Description	StartDate	EndDate	ProjectID	EmployeeID
1	Develop the user interface.	2023-01-01	2023-03-01	1	1
2	Develop the database.	2023-02-01	2023-04-01	1	2
3	Implement the user stories.	2023-03-01	2023-05-01	1	3
4	Write the unit tests.	2023-04-01	2023-06-01	1	4
5	Integrate the modules.	2023-05-01	2023-07-01	1	5
6	Deploy the application.	2023-06-01	2023-08-01	1	6
7	Test the application.	2023-07-01	2023-09-01	1	7
8	Fix bugs.	2023-08-01	2023-10-01	1	8
9	Release the application.	2023-09-01	2023-11-01	1	9
10	Provide support to users.	2023-10-01	2023-12-01	1	10

# INSERT INTO Service (ServiceID, Name, Description) VALUES

```

(1, 'Software Development', 'We develop custom software applications to meet your business
needs.'),
(2, 'Website Design and Development', 'We design and develop beautiful and functional
websites that will help you grow your business.'),
(3, 'Marketing', 'We help you reach your target audience with effective marketing campaigns.'),
(4, 'Consulting', 'We provide expert advice and guidance on a variety of business-related
topics.'),
(5, 'Training', 'We offer a variety of training programs to help you and your employees develop
the skills you need to succeed.'),
(6, 'Support', 'We provide 24/7 support to ensure that your software applications and websites
are always up and running.'),

```



(7, 'Security', 'We help you protect your data from unauthorized access.'),  
 (8, 'Cloud Computing', 'We help you move your business to the cloud so you can save money and improve efficiency.'),  
 (9, 'Data Analytics', 'We help you make sense of your data so you can make better business decisions.'),  
 (10, 'Mobile App Development', 'We develop mobile apps that will help you reach your target audience on their mobile devices.');

ServiceID	Name	Description
1	Software Development	We develop custom software applications to me...
2	Website Design and Development	We design and develop beautiful and functional...
3	Marketing	We help you reach your target audience with ef...
4	Consulting	We provide expert advice and guidance on a va...
5	Training	We offer a variety of training programs to help ...
6	Support	We provide 24/7 support to ensure that your s...
7	Security	We help you protect your data from unauthoriz...
8	Cloud Computing	We help you move your business to the cloud s...
9	Data Analytics	We help you make sense of your data so you c...
10	Mobile App Development	We develop mobile apps that will help you reach...

**INSERT INTO Contract (ContractID, ServiceID, ClientID, EmployeeID, StartDate, EndDate, TermsAndConditions)**

**VALUES**

(1, 1, 1, 1, '2023-01-01', '2023-03-01', 'This is the contract terms and conditions for Inventory Manager Project.'),  
 (2, 2, 2, 2, '2023-02-01', '2023-04-01', 'This is the contract terms and conditions for Website Developement.'),  
 (3, 3, 3, 3, '2023-03-01', '2023-05-01', 'This is the contract terms and conditions for Marketing Campaign.'),  
 (4, 4, 4, 4, '2023-04-01', '2023-06-01', 'This is the contract terms and conditions for Market Research.'),  
 (5, 5, 5, 5, '2023-05-01', '2023-07-01', 'This is the contract terms and conditions for White Paper.'),  
 (6, 6, 6, 6, '2023-06-01', '2023-08-01', 'This is the contract terms and conditions for Training Program.'),  
 (7, 7, 7, 7, '2023-07-01', '2023-09-01', 'This is the contract terms and conditions for Product.'),  
 (8, 8, 8, 8, '2023-08-01', '2023-10-01', 'This is the contract terms and conditions for Customer Support.'),  
 (9, 9, 9, 9, '2023-09-01', '2023-11-01', 'This is the contract terms and conditions for Management.'),  
 (10, 10, 10, 10, '2023-10-01', '2023-12-01', 'This is the contract terms and conditions for Website.');

Result Grid							
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:	
ContractID	StartDate	EndDate	TermsAndConditions	ServiceID	ClientID	EmployeeID	
1	2023-01-01	2023-03-01	This is the contract terms and conditions for Inv...	1	1	1	
2	2023-02-01	2023-04-01	This is the contract terms and conditions for We...	2	2	2	
3	2023-03-01	2023-05-01	This is the contract terms and conditions for Ma...	3	3	3	
4	2023-04-01	2023-06-01	This is the contract terms and conditions for Ma...	4	4	4	
5	2023-05-01	2023-07-01	This is the contract terms and conditions for Wh...	5	5	5	
6	2023-06-01	2023-08-01	This is the contract terms and conditions for Tra...	6	6	6	
7	2023-07-01	2023-09-01	This is the contract terms and conditions for Pro...	7	7	7	
8	2023-08-01	2023-10-01	This is the contract terms and conditions for Cu...	8	8	8	
9	2023-09-01	2023-11-01	This is the contract terms and conditions for Ma...	9	9	9	
10	2023-10-01	2023-12-01	This is the contract terms and conditions for We...	10	10	10	
Contract 58							

INSERT INTO Payment (PaymentID, ContractID, Amount, PaymentDate)

VALUES

(1, 1, 1000, '2023-01-01'),

(2, 2, 2000, '2023-02-01'),

(3, 3, 3000, '2023-03-01'),

(4, 4, 4000, '2023-04-01'),

(5, 5, 5000, '2023-05-01'),

(6, 6, 6000, '2023-06-01'),

(7, 7, 7000, '2023-07-01'),

(8, 8, 8000, '2023-08-01'),

(9, 9, 9000, '2023-09-01'),

(10, 10, 10000, '2023-10-01');

Result Grid			
Filter Rows:		Edit:	
Export/Import:		Wrap Cell Content:	
PaymentID	Amount	PaymentDate	ContractID
1	1000	2023-01-01	1
2	2000	2023-02-01	2
3	3000	2023-03-01	3
4	4000	2023-04-01	4
5	5000	2023-05-01	5
6	6000	2023-06-01	6
7	7000	2023-07-01	7
8	8000	2023-08-01	8
9	9000	2023-09-01	9
10	10000	2023-10-01	10
Payment 59			

#-----% Updation %

#### UPDATE Client

```
SET FirstName = 'James'  
WHERE ClientID = 1;
```

#### UPDATE Client

```
SET Phone = '545-545-1216'  
WHERE ClientID = 5;
```

#### UPDATE Client

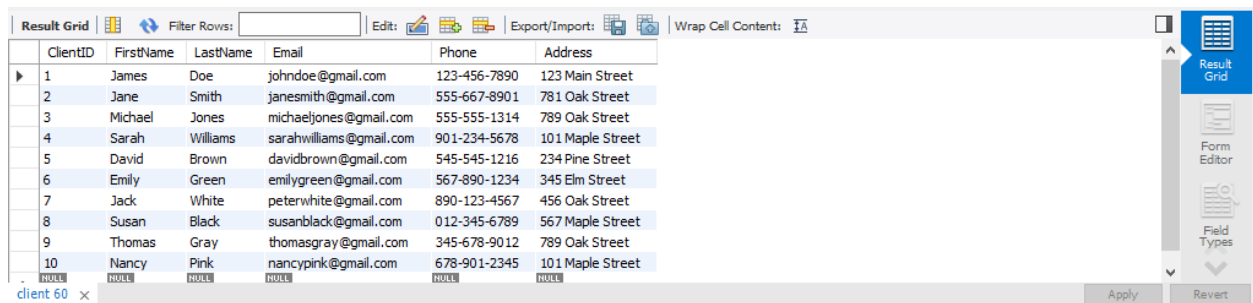
```
SET Address = '781 Oak Street'  
WHERE ClientID = 2;
```

#### UPDATE Client

```
SET Phone = '555-555-1314'  
WHERE ClientID = 3;
```

#### UPDATE Client

```
SET FirstName = 'Jack'  
WHERE ClientID = 7;
```



	ClientID	FirstName	LastName	Email	Phone	Address
▶	1	James	Doe	johndoe@gmail.com	123-456-7890	123 Main Street
	2	Jane	Smith	janesmith@gmail.com	555-667-8901	781 Oak Street
	3	Michael	Jones	michaeljones@gmail.com	555-555-1314	789 Oak Street
	4	Sarah	Williams	sarahwilliams@gmail.com	901-234-5678	101 Maple Street
	5	David	Brown	davidbrown@gmail.com	545-545-1216	234 Pine Street
	6	Emily	Green	emilygreen@gmail.com	567-890-1234	345 Elm Street
	7	Jack	White	peterwhite@gmail.com	890-123-4567	456 Oak Street
	8	Susan	Black	susanblack@gmail.com	012-345-6789	567 Maple Street
	9	Thomas	Gray	thomasgray@gmail.com	345-678-9012	789 Oak Street
	10	Nancy	Pink	nancypink@gmail.com	678-901-2345	101 Maple Street

#### UPDATE Employee

```
SET FirstName = 'John',  
LastName = 'Doe'  
WHERE EmployeeID = 1;
```

#### UPDATE Employee

```
SET Salary = 200500  
WHERE EmployeeID = 2;
```

#### UPDATE Employee

```
SET Address = '21 Brookfield St'  
WHERE EmployeeID = 8;
```

### UPDATE Employee

SET Salary = 100000

WHERE EmployeeID = 3;

### UPDATE Employee

SET LastName = 'David'

WHERE EmployeeID = 4;

EmployeeID	FirstName	LastName	Email	Phone	Address	HireDate	Salary
1	John	Doe	johndoe@example.com	555-555-1212	21 Oslo St	2022-02-01	52000
2	Jane	Doe	janedoe@example.com	555-555-1212	23 Greenfield Rd	2021-04-01	200500
3	Bob	Smith	bobsmith@example.com	555-555-1212	143 Main St	2009-01-01	100000
4	Sue	David	suejohnson@example.com	555-555-1212	113 Main Rd	2021-11-01	60000
5	Mike	Brown	mikebrown@example.com	555-555-1212	21 Main Victoria Rd	2007-11-01	90000
6	Mary	Jones	maryjones@example.com	555-555-1212	87 Victoria St	2018-10-01	10000
7	Tom	Wilson	tomwilson@example.com	555-555-1212	122 Main Rd	2023-08-01	30000
8	Lisa	Davis	lisadavis@example.com	555-555-1212	21 Brookfield St	2021-03-01	40000
9	Bill	Miller	billmiller@example.com	555.555.1212	139 Main St	2012-08-01	50000
10	Karen	Taylor	karentaylor@example.com	555.555.1212	256 Victoria St	2020-05-01	20000

### UPDATE Project

SET Title = "Inventory Management System"

WHERE ProjectID = 1;

### UPDATE Project

SET StartDate = "2010-04-01"

WHERE ProjectID = 8;

### UPDATE Project

SET Description = "Only Build a new website to promote products and services."

WHERE ProjectID = 2;

### UPDATE Project

SET StartDate = "2023-06-01"

WHERE ProjectID = 3;

### UPDATE Project

SET Title = "Inventory Management System"

WHERE ProjectID = 9;

Result Grid						
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:
ProjectID	Title	Description	StartDate	EndDate	ClientID	
1	Inventory Management System	Develop a new software application to manage i...	2023-01-01	2023-03-01	1	
2	Website Development	Only Build a new website to promote products a...	2023-02-01	2023-04-01	2	
3	Marketing Campaign	Implement a new marketing campaign using prin...	2023-06-01	2023-05-01	3	
4	Market Research	Conduct market research to understand target ...	2023-04-01	2023-06-01	4	
5	White Paper	Write a white paper to educate customers abou...	2023-05-01	2023-07-01	5	
6	Training Program	Create a new training program to train employe...	2023-06-01	2023-08-01	6	
7	Product	Develop a new product to solve a specific probl...	2023-07-01	2023-09-01	7	
8	Customer Support	Provide customer support via phone, email, and...	2010-04-01	2023-10-01	8	
9	Inventory Management System	Manage a project to develop new software appl...	2023-09-01	2023-11-01	9	
10	Website	Deliver a project on time and within budget to d...	2023-10-01	2023-12-01	10	

### UPDATE task

SET EndDate = "2023-12-01"

WHERE TaskID = 8;

### UPDATE task

SET EndDate = "2019-02-03"

WHERE TaskID = 5;

### UPDATE task

SET Description = "Developing backend."

WHERE TaskID = 2;

### UPDATE task

SET EndDate = "2023-09-01"

WHERE TaskID = 3;

### UPDATE task

SET Description = "Testing"

WHERE TaskID = 7;

Result Grid						
Filter Rows:		Edit:		Export/Import:		Wrap Cell Content:
TaskID	Description	StartDate	EndDate	ProjectID	EmployeeID	
1	Develop the user interface.	2023-01-01	2023-03-01	1	1	
2	Developing backend.	2023-02-01	2023-04-01	1	2	
3	Implement the user stories.	2023-03-01	2023-09-01	1	3	
4	Write the unit tests.	2023-04-01	2023-06-01	1	4	
5	Integrate the modules.	2023-05-01	2019-02-03	1	5	
6	Deploy the application.	2023-06-01	2023-08-01	1	6	
7	Testing	2023-07-01	2023-09-01	1	7	
8	Fix bugs.	2023-08-01	2023-12-01	1	8	
9	Release the application.	2023-09-01	2023-11-01	1	9	
10	Provide support to users.	2023-10-01	2023-12-01	1	10	

### UPDATE Service

SET Name = 'Software Developement Service'  
WHERE ServiceID = 1;

### UPDATE Service

SET Description = 'New Description'  
WHERE ServiceID = 2;

### UPDATE Service

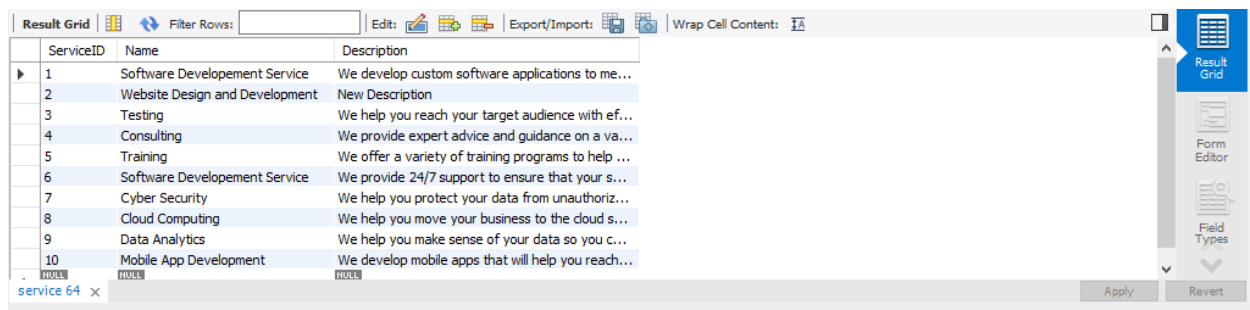
SET Name = 'Cyber Security'  
WHERE ServiceID = 7;

### UPDATE Service

SET Name = 'Testing'  
WHERE ServiceID = 3;

### UPDATE Service

SET Name = 'Software Developement Service'  
WHERE ServiceID = 6;



The screenshot shows a database management interface with a table containing 10 rows of service data. The table has three columns: ServiceID, Name, and Description. The data is as follows:

ServiceID	Name	Description
1	Software Developement Service	We develop custom software applications to me...
2	Website Design and Development	New Description
3	Testing	We help you reach your target audience with ef...
4	Consulting	We provide expert advice and guidance on a va...
5	Training	We offer a variety of training programs to help ...
6	Software Developement Service	We provide 24/7 support to ensure that your s...
7	Cyber Security	We help you protect your data from unauthoriz...
8	Cloud Computing	We help you move your business to the cloud s...
9	Data Analytics	We help you make sense of your data so you c...
10	Mobile App Development	We develop mobile apps that will help you reach...

The interface includes a toolbar with options like 'Filter Rows', 'Edit', 'Export/Import', and 'Wrap Cell Content'. On the right side, there are buttons for 'Result Grid', 'Form Editor', and 'Field Types'. At the bottom, there are 'Apply' and 'Revert' buttons.

### UPDATE Contract

SET EndDate = '2023-03-01'  
WHERE StartDate = '2023-01-01';

### UPDATE Contract

SET TermsAndConditions = 'This is the new contract terms and conditions for Service 1.'  
WHERE ServiceID = 1;

### UPDATE Contract

SET EmployeeID = 2  
WHERE ClientID = 2;

### UPDATE Contract

SET EndDate = '2023-03-01'  
WHERE ContractID = 3;

### UPDATE Contract

SET EndDate = '2023-03-01'

WHERE ServiceID = 3;

ContractID	StartDate	EndDate	TermsAndConditions	ServiceID	ClientID	EmployeeID
1	2023-01-01	2023-03-01	This is the new contract terms and conditions fo...	1	1	1
2	2023-02-01	2023-04-01	This is the contract terms and conditions for We...	2	2	2
3	2023-03-01	2023-03-01	This is the contract terms and conditions for Ma...	3	3	3
4	2023-04-01	2023-06-01	This is the contract terms and conditions for Ma...	4	4	4
5	2023-05-01	2023-07-01	This is the contract terms and conditions for Wh...	5	5	5
6	2023-06-01	2023-08-01	This is the contract terms and conditions for Tra...	6	6	6
7	2023-07-01	2023-09-01	This is the contract terms and conditions for Pro...	7	7	7
8	2023-08-01	2023-10-01	This is the contract terms and conditions for Cu...	8	8	8
9	2023-09-01	2023-11-01	This is the contract terms and conditions for Ma...	9	9	9
10	2023-10-01	2023-12-01	This is the contract terms and conditions for We...	10	10	10
NULL	NULL	NULL	NULL	NULL	NULL	NULL

### UPDATE Payment

SET Amount = 2000

WHERE ContractID = 1;

### UPDATE Payment

SET PaymentDate = '2023-03-01'

WHERE PaymentID = 5;

### UPDATE Payment

SET PaymentDate = '2023-06-01'

WHERE Amount > 5000;

### UPDATE Payment

SET PaymentDate = '2022-08-01'

WHERE Amount < 8000;

### UPDATE Payment

SET Amount = 22000

WHERE ContractID = 8;

PaymentID	Amount	PaymentDate	ContractID
1	2000	2022-08-01	1
2	2000	2022-08-01	2
3	3000	2022-08-01	3
4	4000	2022-08-01	4
5	5000	2022-08-01	5
6	6000	2022-08-01	6
7	7000	2022-08-01	7
8	22000	2023-06-01	8
9	9000	2023-06-01	9
10	10000	2023-06-01	10
NULL	NULL	NULL	NULL