

PUSL2019 – Information

Management and Retrieval

Coursework

**GROUP 03**

**Supermarket stock & inventory control system**

## **A basic introduction to the scenario**

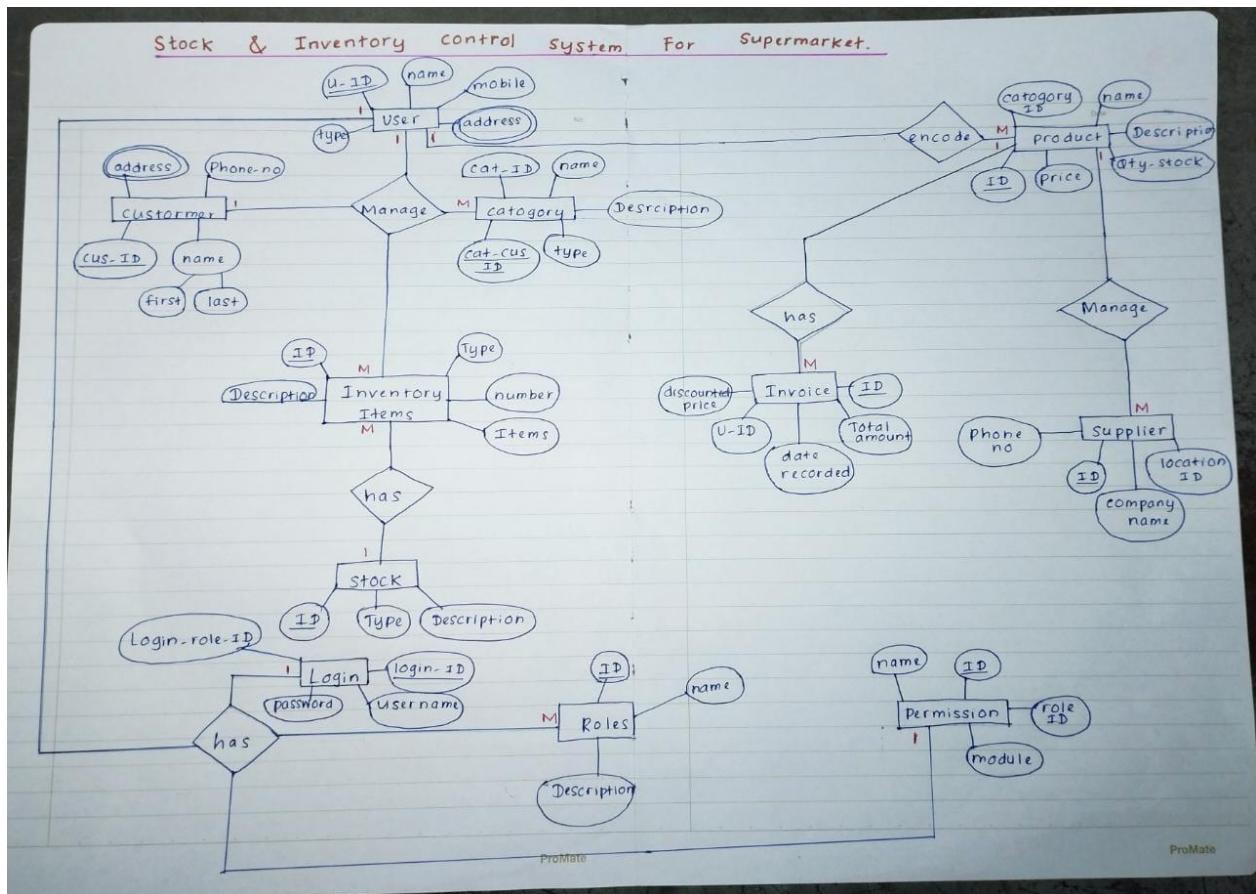
As the given scenario we planned to develop a stock and inventory control system for supermarket to track the stock and also we can bill our materials in the supermarket.

In this system we can print an invoice by using system and also admin user can access the full system and he can get the report of these aspects. Different users have different level permission to system access.

Also customer can be a register by using its name, id, address and mobile no.

The stocks can handle by the suppliers of supermarket.

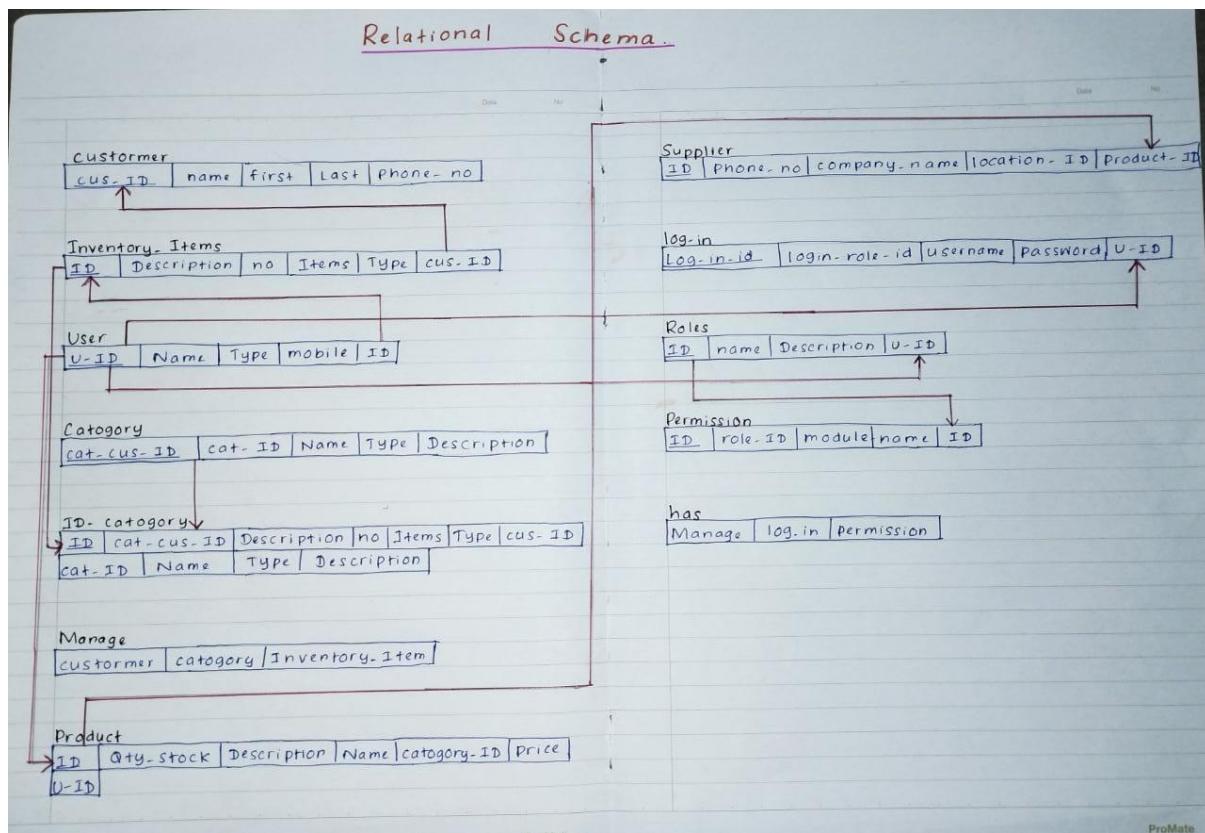
## ER-Diagram.



## **Assumptions that we made.**

- Users have many roles and according to the given role they have different type permission.
- User can manage inventory system.
- Every product has their own invoice.
- Also customer can manage categories.

## Relational Schema.



## Normalization

### 1<sup>st</sup> Normal Form

Customer

cus-ID	Phone-no	name

User

U-ID	name	mobile	Type

Category

cat-cus-ID	cat-ID	name	Description	Type

Log-in

Login-ID	Login-role-id	username	Password

Roles

ID	Name	Description

Permission

ID	role-id	mobile	name

Product

ID	Price	Category-ID	Name	Description	Qty-stock

Invoice

ID	V-ID	discounted-price	total amount	date-recorded

Supplier

ID	Phone-no	company-name	location-ID

## 2<sup>nd</sup> Normal Form

Customer

Phone-no	name	CUS-ID
----------	------	--------

User

name	mobile	Type
------	--------	------

Category

Cat-cus-ID	Cat-ID	name	Description	Type
------------	--------	------	-------------	------

Log-in

Login-ID	Login-role-id	username	password
----------	---------------	----------	----------

Roles

ID	Name	Description
----	------	-------------

Permission

ID	role-id	mobile	name
----	---------	--------	------

Product

ID	Name	Description	Qty-stock
----	------	-------------	-----------

ID	category-ID
----	-------------

Invoice

discounted-Price	total	amount	Date-recorded
------------------	-------	--------	---------------

ID	U-ID
----	------

Supplier

Phone-no	Company-name
----------	--------------

ID	Phone-no	location-ID
----	----------	-------------

### 3<sup>rd</sup> Normal Form

Customer

Phone - no	Name	<u>cus-ID</u>
------------	------	---------------

User

name	mobile	Type
------	--------	------

Category

Cat-cus-ID	cat-id	name	Description	Type

Log-in

User-name	Password	Login-id	Login-role-id
-----------	----------	----------	---------------

Roles

ID	name	Description

Permission

ID	Role-id	mobile-no	name

Product

ID	name	Description	Qty-stock	Category-ID

Invoice

ID	U-ID	discounted-price	Total amount	Date recorded
----	------	------------------	--------------	---------------

Supplier

Phone-no	company-name	
ID	Phone-no	Location-id

Data Dictionary

## Customer

Field name	Data type	Field size for display	Description	Example
Cus_id	Integer	10	Unique id for each customer	0000000001
Name	Text	20	Name of customer	David
Address	Text	50	Customer's address	Kings street, Colombo 11
Phone_no	Integer	10	Phone no of customer	0112536987

User

Field name	Data type	Field size to display	Description	Example
U_id	integer	10	Unique id for each user	1111111111
Name	Text	20	Name of user	Jane
mobile	Integer	10	Mobile no of user	0715698724
Address	Text	50	Users address	No 1, Hide park, Colombo
type	Text	20	User type	Database administrator

### Category

Field name	Data type	Field size to display	description	Example
Cat-id	Integer	03	Unique id for each category	001
Name	Text	20	Name of category	July
Description	Text	20	Description about category	Row
Type	Text	20	Category type	Bakery
Cat_cus_id	Integer	04	Category customers' id	0001

### Login

Field name	Data type	Field size to display	description	Example
Login_id	Integer	05	Unique login id	00001
Login_role_id	Integer	07	Unique role id	0000001
Username	Text	10	Username for login	Pa_ul013Af
password	text	8	Unique password for each login	Paul@101

### Roles

Field name	Data type	Field size to display	description	Example
Id	integer	02	Unique role id	01
Name	text	20	Name of role	Grocery clerk
Description	text	50	Description about role.	Maintaining a clean work environment.

### Permission

Field id	Data type	Field size to display	description	Example
Role_id	Integer	02	Unique role id from roles table	01
Id	Integer	03	Unique permission id	101
Module	Text	20	About module description	Manage payment
Name	text	20	Permission type name	Full access

Field id	Data type	Field size to display	description	Example
Id	Integer	05	Unique inventory item id	00005
Description	Text	20	Description about inventory items	Raw materials and components
Number	Integer	10	No of inventory items	02
Items	Text	100	Item names	Item1
type	Text	20	Type of inventory items	Finished goods

Invent  
ory  
items

### Product

Field id	Data type	Field size to display	description	Example
Id	Integer	9	Unique product id	000000009
Price	Decimal	(10,2)	Product price	1235.23
Category id	Integer	10	Categories id	0000001235
Name	Text	20	Product name	Dhal
Description	Text	50	Product description	Raw material
Qty stock	integer	90	How many products available in stock	25

## Invoice

Field id	Data type	Field size to display	description	Example
Id	Integer	01	Unique invoice id	01
U_id	Integer	10	Users id	000000003
Discounted price	Decimal	(10,2)	Discounted price for items	102.33
Total amount	Decimal	(10,2)	Items total bill value	15698.36
Date recorded	Date	Yyyy-mm-dd	Sale date	2023-01-23

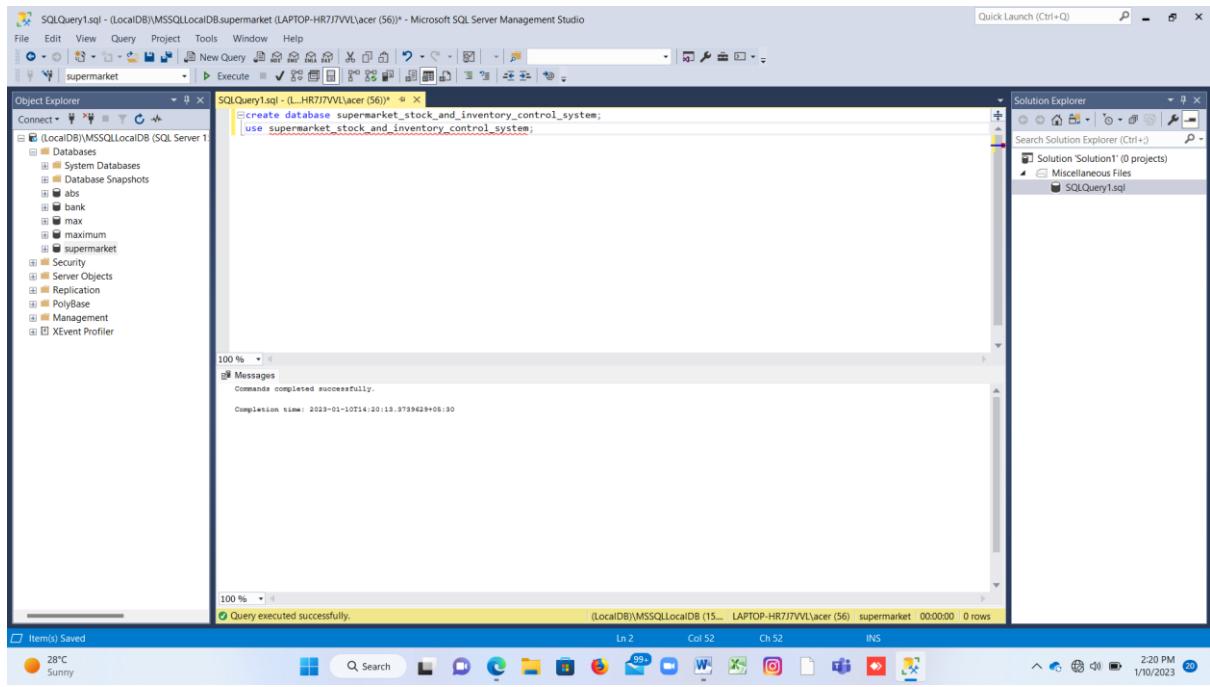
## Stock

Field id	Data type	Field size to display	description	Example
Id	Integer	3	Unique stock id	002
Type	Text	45	Stock type	Work in progress
description	text	50	Description of stock	Still didn't distribute for supermarket

## Supplier

Field id	Data type	Field size to display	description	Example
Id	Integer	12	Unique supplier id	000000000012
Phone no	Integer	10	Suppliers phone no	0123698752
Company name	Text	50	Suppliers Company name	Keels_super
Location id	text	50	Can't have zero values	colombo

## Screenshots of SQL Queries



The screenshot shows two instances of Microsoft SQL Server Management Studio (SSMS) running side-by-side. Both instances are connected to the same LocalDB database named 'supermarket\_stock\_and\_inventory\_control\_system'.

**Top Instance (Screenshot 1):**

- Object Explorer:** Shows the database structure under '(LocalDB)\MSSQLLocalDB (SQL Server 1)'.
- SQL Query Editor:** Contains the following SQL code:

```
create database supermarket_stock_and_inventory_control_system;
use supermarket_stock_and_inventory_control_system;
```
- Messages:** Displays the output:

```
Commands completed successfully.
```
- Solution Explorer:** Shows a solution named 'Solution1' with a file named 'SQLQuery1.sql'.

**Bottom Instance (Screenshot 2):**

- Object Explorer:** Shows the database structure under '(LocalDB)\MSSQLLocalDB (SQL Server 1)'.
- SQL Query Editor:** Contains the following SQL code:

```
create database supermarket_stock_and_inventory_control_system;
use supermarket_stock_and_inventory_control_system;

create table customer
{
    cus_id int not null,
    name varchar(20) not null,
    address varchar(50) not null,
    phone_no int,
    primary key(cus_id)
}
```
- Messages:** Displays the output:

```
Commands completed successfully.
```
- Solution Explorer:** Shows a solution named 'Solution1' with a file named 'SQLQuery1.sql'.

Screenshot of Microsoft SQL Server Management Studio (SSMS) showing the execution of a SQL script named SQLQuery1.sql. The script creates a database named supermarket\_stock\_and\_inventory\_control\_system and a table named customer. The table has columns cus\_id, name, address, and phone\_no. A primary key constraint is defined on cus\_id. Two rows are inserted into the customer table.

```
create database supermarket_stock_and_inventory_control_system;
use supermarket_stock_and_inventory_control_system;

create table customer(
    cus_id int not null,
    name varchar(20) not null,
    address varchar(50) not null,
    phone_no int,
    primary key(cus_id)
);

insert into customer(cus_id, name, address, phone_no) values(000000001, 'jane', 'kings_street_colombo_9', 0315698712);
```

Messages pane shows: (1 row affected). Completion time: 2023-01-10T14:47:38.0338097+08:30

Query executed successfully.

Screenshot of Microsoft SQL Server Management Studio (SSMS) showing the execution of a SQL script named SQLQuery1.sql. The script creates a database named supermarket\_stock\_and\_inventory\_control\_system and a table named customer. The table has columns cus\_id, name, address, and phone\_no. A primary key constraint is defined on cus\_id. Three rows are inserted into the customer table.

```
create database supermarket_stock_and_inventory_control_system;
use supermarket_stock_and_inventory_control_system;

create table customer(
    cus_id int not null,
    name varchar(20) not null,
    address varchar(50) not null,
    phone_no int,
    primary key(cus_id)
);

insert into customer(cus_id, name, address, phone_no) values(000000001, 'jane', 'kings_street_colombo_9', 0315698712);
insert into customer(cus_id, name, address, phone_no) values(000000002, 'july', 'flower_street_colombo_1', 0112635987);
```

Messages pane shows: (1 row affected). Completion time: 2023-01-10T14:49:03.8047840+08:30

Query executed successfully.

```
File Edit View Query Project Tools Window Help
File New Query Object Explorer Solution Explorer
SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.supermarket_stock_and_inventory_control_system (LAPTOP-HR7J7VVL\acer (56)) - Microsoft SQL Server Management Studio
Object Explorer
Solution Explorer
File Edit View Query Project Tools Window Help
File New Query Object Explorer Solution Explorer
SQLQuery1.sql - (L-HR7J7VVL\acer (56)) - Microsoft SQL Server Management Studio
Object Explorer
Solution Explorer
File Edit View Query Project Tools Window Help
File New Query Object Explorer Solution Explorer
SQLQuery1.sql - (L-HR7J7VVL\acer (56)) - Microsoft SQL Server Management Studio
Object Explorer
Solution Explorer
```

```
create database supermarket_stock_and_inventory_control_system;
use supermarket_stock_and_inventory_control_system;

create table customer(
cus_id int not null,
name varchar(20) not null,
address varchar(50) not null,
phone_no int,
primary key(cus_id)
);

insert into customer(cus_id,name,address,phone_no)values(000000001,'jane','kings_street_colombo_9',0315698712);
insert into customer(cus_id,name,address,phone_no)values(000000002,'july','flower_street_colombo_1',0112635987);
insert into customer(cus_id,name,address,phone_no)values(000000003,'tom','hawlock_street_colombo_2',0119639687);
```

100 %

Messages

(1 row affected)

Completion time: 2023-01-10T14:50:20.0249796+08:30

100 %

Query executed successfully.

```
File Edit View Query Project Tools Window Help
File New Query Object Explorer Solution Explorer
SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (58)) - Microsoft SQL Server Management Studio
Object Explorer
Solution Explorer
File Edit View Query Project Tools Window Help
File New Query Object Explorer Solution Explorer
SQLQuery1.sql - (L-HR7J7VVL\acer (58)) - Microsoft SQL Server Management Studio
Object Explorer
Solution Explorer
File Edit View Query Project Tools Window Help
File New Query Object Explorer Solution Explorer
SQLQuery1.sql - (L-HR7J7VVL\acer (58)) - Microsoft SQL Server Management Studio
Object Explorer
Solution Explorer
```

```
create database supermarket_stock_and_inventory_control_system;
use supermarket_stock_and_inventory_control_system;

create table customer(
cus_id int not null,
name varchar(20) not null,
address varchar(50) not null,
phone_no int,
primary key(cus_id)
);

insert into customer(cus_id,name,address,phone_no)values(000000001,'jane','kings_street_colombo_9',0315698712);
insert into customer(cus_id,name,address,phone_no)values(000000002,'july','flower_street_colombo_1',0112635987);
insert into customer(cus_id,name,address,phone_no)values(000000003,'tom','hawlock_street_colombo_2',0119639687);
insert into customer(cus_id,name,address,phone_no)values(000000004,'person','pitipana_mu homagama',0325569874);
```

100 %

Messages

(1 row affected)

Completion time: 2023-01-11T08:54:09.3531860+08:30

100 %

Query executed successfully.

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (5B)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master | Execute | New Query | Find | Replace | Go To | Open | Save | Save As | Print | Copy | Paste | Cut | Delete | Refresh | Properties | Run | Stop | Close |

Object Explorer

Connect to... MSSQLLocalDB (SQL Server 1) | Databases | System Databases | Database Snapshots | abc | bank | max | maximum | supermarket | Security | Server Objects | Replication | PolyBase | Management | XEvent Profiler

SQLQuery1.sql - (L-HR7J7VVL\acer (5B))

```
create database supermarket_stock_and_inventory_control_system;
use supermarket_stock_and_inventory_control_system;

create table customer(
cus_id int not null,
name varchar(20) not null,
address varchar(50) not null,
phone_no int,
primary key(cus_id)
);

insert into customer(cus_id,name,address,phone_no)values(00000001,'jane','kings_street_colombo_9',0315698712);
insert into customer(cus_id,name,address,phone_no)values(00000002,'july','flower_street_colombo_1',0112635987);
insert into customer(cus_id,name,address,phone_no)values(00000003,'tom','hawlock_street_colombo_2',0119639687);
insert into customer(cus_id,name,address,phone_no)values(00000003,'perera','pitipana_mw_homagama',0325569874);
insert into customer(cus_id,name,address,phone_no)values(00000007,'silva','jawatte_rd_wellawatte',0396632875);
select * from customer;
```

Messages

1 row affected

Completion time: 2023-01-11T08:56:01.8344870+08:30

100 %

Query executed successfully.

(LocalDB)\MSSQLLocalDB (15... LAPTOP-HR7J7VVL\acer (5B) master 00:00:00 0 rows)

Item(s) Saved

28°C Sunny

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (5B)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

master | Execute | New Query | Find | Replace | Go To | Open | Save | Save As | Print | Copy | Paste | Cut | Delete | Refresh | Properties | Run | Stop | Close |

Object Explorer

Connect to... MSSQLLocalDB (SQL Server 1) | Databases | System Databases | Database Snapshots | abc | bank | max | maximum | supermarket | Security | Server Objects | Replication | PolyBase | Management | XEvent Profiler

SQLQuery1.sql - (L-HR7J7VVL\acer (5B))

```
insert into customer(cus_id,name,address,phone_no)values(00000002,'july','flower_street_colombo_1',0112635987);
insert into customer(cus_id,name,address,phone_no)values(00000003,'tom','hawlock_street_colombo_2',0119639687);
insert into customer(cus_id,name,address,phone_no)values(00000007,'perera','pitipana_mw_homagama',0325569874);
insert into customer(cus_id,name,address,phone_no)values(00000008,'silva','jawatte_rd_wellawatte',0396632875);
insert into customer(cus_id,name,address,phone_no)values(00000008,'ayoda','anuwatte_rd_kandy',0812965158);
insert into customer(cus_id,name,address,phone_no)values(00000004,'weerasekare','kandana_rd_ja-ela',0693657410);
insert into customer(cus_id,name,address,phone_no)values(00000007,'dalipitiya','aladeniya_rd_gampola',0356632012);
insert into customer(cus_id,name,address,phone_no)values(00000006,'harischandra','kandy_rd_wels_park',0813697510);
insert into customer(cus_id,name,address,phone_no)values(00000005,'shanthi','sha-mw_kegalle',0398765414);
insert into customer(cus_id,name,address,phone_no)values(00000009,'anna','wels-park_hanwalle',0963674522);
select * from customer;
```

Results

cus_id	name	address	phone_no
1	3	perera	pitipana_mw_homagama
2	4	weerasekare	kandana_rd_ja-ela
3	6	silva	jawatte_rd_wellawatte
4	7	silva	jawatte_rd_wellawatte
5	8	ayoda	anuwatte_rd_kandy
6	9	perera	pitipana_mw_homagama
7	65	shanthi	sha-mw_kegalle
8	98	anna	wels-park_hanwalle

Messages

Query executed successfully.

(LocalDB)\MSSQLLocalDB (15... LAPTOP-HR7J7VVL\acer (5B) master 00:00:00 8 rows)

Ready

28°C Sunny

8:56 AM 1/11/2023

9:07 AM 1/11/2023

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to LocalDB\MSQLLocalDB master (LAPTOP-HR7J7VVL\acer (58)). The main window displays a query window with the following SQL code:

```
create table user_(
    u_id int not null,
    name varchar(20) not null,
    mobile int not null,
    address varchar(50),
    type varchar(20),
    primary key(u_id)
);

insert into user_(u_id,name,mobile,address,type)values(1136987523,'nayna',01369874565,'kabilitta_anuradhapura','user');
```

The status bar at the bottom shows the message "Query executed successfully." and the completion time: 2023-01-11T09:27:41.0020874+05:30.

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (58)) - Microsoft SQL Server Management Studio

```

insert into user_(u_id,name,mobile,address,type)values(1136897523,'nayna',01369874565,'kabilitta_anuradhapura','user');
insert into user_(u_id,name,mobile,address,type)values(1136897583,'mandy',0539876548,'jaya_mv,homagama','user');
insert into user_(u_id,name,mobile,address,type)values(1199897523,'nayna',01369874565,'kabilitta_anuradhapura','user');
insert into user_(u_id,name,mobile,address,type)values(1000897563,'neero',0698987455,'jawatte_ja_elu','user');
insert into user_(u_id,name,mobile,address,type)values(1111117563,'omega',0963577455,'kadawaththa_ja_elu','user');
insert into user_(u_id,name,mobile,address,type)values(1000000003,'mearo',0632145455,'pitipana_north','user');
insert into user_(u_id,name,mobile,address,type)values(10698975621,'jagath',0596875412,'seba_mv,bastian_01','user');
insert into user_(u_id,name,mobile,address,type)values(1968921563,'deeshani',0698987455,'jawatte_vala','user');
insert into user_(u_id,name,mobile,address,type)values(1968971563,'anooma',0550398765,'shanthi_rd,baticlore_09','user');
insert into user_(u_id,name,mobile,address,type)values(1968921698,'malee',0698987455,'clouds_mv,gampaha','user');
insert into user_(u_id,name,mobile,address,type)values(199991698,'deeshani',0698989875,'cloud_yard,kandy','user');

select *from user_;
```

Results Messages

u_id	name	mobile	address	type
1	199991698	deeshani	69989875	cloud_yard,kandy
2	1000000003	mearo	632145455	pitipana_north
3	1000897563	neero	698987455	jawatte_ja_elu
4	10698975621	jagath	596875412	seba_mv,bastian_01
5	1111117563	omega	90577455	kadawaththa_ja_elu
6	1136897523	nayna	1369874565	kabilitta_anuradhapura
7	1199897523	nayna	1369874565	kabilitta_anuradhapura
8	1199897523	nayna	1369874565	kabilitta_anuradhapura
9	1968921563	sadamali	698987455	jawatte_vala
10	1968921698	malee	698987455	clouds_mv,gampaha
11	1968971563	anooma	550398765	shanthi_rd,baticlore_09

Query executed successfully.

Item(s) Saved

28°C Sunny

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (58)) - Microsoft SQL Server Management Studio

```

insert into user_(u_id,name,mobile,address,type)values(1968921698,'malee',0698987455,'clouds_mv,gampaha','user');
insert into user_(u_id,name,mobile,address,type)values(199991698,'deeshani',0698989875,'cloud_yard,kandy','user');

select *from user_;
```

Results Messages

Commands completed successfully.

Completion time: 2023-01-11T10:13:23.4327166+05:30

Query executed successfully.

Matches: (

28°C Sunny

SQlQuery1.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (58)) - Microsoft SQL Server Management Studio

```

cat_id int not null,
name varchar(20),
description varchar(20),
type varchar(20),
cat_cus_id int ,
primary key (cat_id)
);

insert into categorrey(cat_id,name,description,type,cat_cus_id)values(001,'july','row','bakery',0001);

```

1 row affected

Completion time: 2023-01-11T10:16:21.8655536+05:30

Query executed successfully.

Item(s) Saved

28°C Sunny

SQlQuery1.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (58)) - Microsoft SQL Server Management Studio

```

insert into categorrey(cat_id,name,description,type,cat_cus_id)values(003,'melani','row','beverages',0002);
insert into categorrey(cat_id,name,description,type,cat_cus_id)values(004,'heshi','half_cooked','deli',0004);
insert into categorrey(cat_id,name,description,type,cat_cus_id)values(005,'tharu','row','floral',0005);
insert into categorrey(cat_id,name,description,type,cat_cus_id)values(003,'melani','row','beverages',0002);
insert into categorrey(cat_id,name,description,type,cat_cus_id)values(006,'lassi','cooked','pharmacy',0005);
insert into categorrey(cat_id,name,description,type,cat_cus_id)values(007,'shan','nonfood','beverages',0003);
insert into categorrey(cat_id,name,description,type,cat_cus_id)values(008,'glori','row','prepared_food',0009);
insert into categorrey(cat_id,name,description,type,cat_cus_id)values(045,'faris','row','seafood',0006);
insert into categorrey(cat_id,name,description,type,cat_cus_id)values(083,'dukey','half_cooked','beverages',007);

select * from categorrey;

```

cat_id	name	description	type	cat_cus_id
1	july	row	bakery	1
2	jude	cooked	meat	1
3	melani	row	beverages	2
4	heshi	half_cooked	deli	4
5	tharu	row	floral	5
6	lassi	cooked	pharmacy	5
7	shan	nonfood	beverages	3
8	glori	row	prepared_food	8
9	faris	row	seafood	6
10	dukey	half_cooked	beverages	7

Query executed successfully.

Item(s) Saved

28°C Sunny

The screenshot shows the Microsoft SQL Server Management Studio interface. The left pane displays the Object Explorer with a tree view of databases, tables, and other objects under the local database 'supermarket\_stock\_and\_inv'. The right pane contains a query window titled 'SQLQuery1.sql - (L-HR77\VVV\acer (58))' showing the following T-SQL code:

```
insert into categorory(cat_id,name,description,type,cat_cus_id)values(083,'dukely','half_cooked','bevarages',007);

select*from categorory;

create table login(
    login_id int not null,
    login_role_id int,
    u_name int not null,
    password int not null,
);
```

Below the code, the status bar indicates '121 %' completion. The 'Messages' section shows the command completed successfully with a timestamp of 'Completion time: 2023-01-11T10:30:11.304611+05:30'.

Object Explorer

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB\master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

LN 79 Col 5 Ch 5 INS

Quick Launch (Ctrl+Q)

10:30 AM 1/11/2023

master

Execute

SQLQuery1.sql - (LAPTOP-HR7J7VVL\acer (52))

```
insert into category(cat_id,name,description,type,cat_cus_id)values(008,'glorii','row','prepared_food',0009);
insert into category(cat_id,name,description,type,cat_cus_id)values(045,'faris','row','seafood',0006);
insert into category(cat_id,name,description,type,cat_cus_id)values(083,'dukely','half_cooked','beverages',007);

select*from category;

create table login_(
    login_id int not null,
    login_role_id int,
    u_name varchar(10)not null,
    password varchar(8) not null,
    primary key (login_id)
);
```

LN 121 %

Messages

Commands completed successfully.

Completion time: 2023-01-11T12:08:53.4306622+05:30

LN 121 %

Query executed successfully.

(LocalDB)\MSSQLLocalDB (15...) LAPTOP-HR7J7VVL\acer (52) master 00:00:00 0 rows

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

```

insert into login_(login_id,login_role_id,u_name,password)values(00002,000002,'ammyy1111','algo_1oi');
insert into login_(login_id,login_role_id,u_name,password)values(00003,000003,'ammyy2222','algo_2oi');
insert into login_(login_id,login_role_id,u_name,password)values(00004,000004,'ammyy3333','algo_3oi');
insert into login_(login_id,login_role_id,u_name,password)values(00005,000005,'ammyy4444','algo_4oi');
insert into login_(login_id,login_role_id,u_name,password)values(00006,000006,'ammyy5555','algo_5oi');
insert into login_(login_id,login_role_id,u_name,password)values(00007,000007,'ammyy6666','algo_6oi');
insert into login_(login_id,login_role_id,u_name,password)values(00008,000008,'ammyy7777','algo_7oi');
insert into login_(login_id,login_role_id,u_name,password)values(00009,000009,'ammyy8888','algo_8oi');
insert into login_(login_id,login_role_id,u_name,password)values(0011,000010,'ammyy9999','algo_9oi');
insert into login_(login_id,login_role_id,u_name,password)values(0012,000012,'ammyy0012','algo_12i');

select*from login_;
```

Results Messages

login_id	login_role_id	u_name	password
1	1	ammyy0000	algo_0oi
2	2	ammyy1111	algo_1oi
3	3	ammyy2222	algo_2oi
4	4	ammyy3333	algo_3oi
5	5	ammyy4444	algo_4oi
6	6	ammyy5555	algo_5oi
7	7	ammyy6666	algo_6oi
8	8	ammyy7777	algo_7oi
9	9	ammyy8888	algo_8oi
10	10	ammyy9999	algo_9oi
11	10	ammyy9999	algo_9oi
12	12	ammyy0012	algo_12i

Query executed successfully.

Ready 28°C Sunny

File Edit View Query Project Tools Window Help

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

```

insert into login_(login_id,login_role_id,u_name,password)values(00008,000008,'ammyy7777','algo_7oi');
insert into login_(login_id,login_role_id,u_name,password)values(00009,000009,'ammyy8888','algo_8oi');
insert into login_(login_id,login_role_id,u_name,password)values(0011,000010,'ammyy9999','algo_9oi');
insert into login_(login_id,login_role_id,u_name,password)values(0012,000012,'ammyy0012','algo_12i');

select*from login_;
```

Messages

Commands completed successfully.

Completion time: 2023-01-11T12:21:34.1326987+05:30

Results Messages

Query executed successfully.

Matches: (

File Edit View Query Project Tools Window Help

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

```

insert into login_(login_id,login_role_id,u_name,password)values(00012,0000012,'ammyy0012','algo_121');

select*from login_;

create table roles(
    id int,
    name varchar(90),
    description varchar(50)
);

insert into roles(id,name,description)values(01,'grocery_cleark','maintaining-clean_work_enviorenment');

```

124 % 1 row affected  
Completion time: 2023-01-11T12:23:40.260922+05:30

Ready 28°C Sunny

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

```

insert into login_(login_id,login_role_id,u_name,password)values(00012,0000012,'ammyy0012','algo_121');

select*from login_;

create table roles_(
    id int,
    name varchar(90),
    description varchar(50)
    primary key (id)
);

insert into roles(id,name,description)values(01,'grocery_cleark','maintaining-clean_work_enviorenment');
insert into roles(id,name,description)values(02,'cashier','maintaining_billing_system');
insert into roles(id,name,description)values(03,'grocery_cleark','maintaining-clean_work_enviorenment');

```

124 % Commands completed successfully.  
Completion time: 2023-01-11T12:25:28.6115660+05:30

Matches: 28°C Sunny

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar reads "SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (S2)) - Microsoft SQL Server Management Studio". The left pane is the Object Explorer, showing the database structure for "(LocalDB)\MSSQLLocalDB.master". The right pane contains a query window with the following T-SQL code:

```
name varchar(90),
description varchar(50)
primary key (id)
);

insert into roles_(id,name,description)values(01,'grocery_cleaner','maintaining-clean_work_enviorenement');
insert into roles_(id,name,description)values(02,'cashier','maintaining_billing_system');
insert into roles_(id,name,description)values(03,'cleaner','maintaining_files');
```

The status bar at the bottom indicates "Completion time: 2023-01-11T12:26:18.1398612+05:30".

28°C Sunny

Query executed successfully.

LN 105 Col 79 Ch 79 INS

12:26 PM 1/11/2023

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB\master (LAPTOP-HR7J7VVLacer (52)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

New Query Execute

master

Object Explorer

SQLQuery1.sql - (L...HR7J7VVLacer (52))

```
insert into roles_(id,name,description)values(04,'stock_keeper','maintaining_stock');
insert into roles_(id,name,description)values(05,'customer_helper','helping_customers');
insert into roles_(id,name,description)values(06,'grocery_cleaner','maintaining_clean_work_enviorenment');
insert into roles_(id,name,description)values(07,'cleaner','maintaining_files');
insert into roles_(id,name,description)values(08,'cashier','maintaining_billing_system');
insert into roles_(id,name,description)values(09,'stock_keeper','maintaining_stock');
insert into roles_(id,name,description)values(10,'customer_helper','helping_customers');

select * from roles_;
```

124 %

Results Messages

	id	name	description
1	0	cleaner	maintaining_files
2	1	grocery_cleaner	maintaining_clean_work_enviorenment
3	2	cashier	maintaining_billing_system
4	3	cleaner	cleaning
5	4	stock_keeper	maintaining_stock
6	5	customer_helper	helping_customers
7	6	grocery_cleaner	maintaining_clean_work_enviorenment
8	7	cleaner	maintaining_files
9	8	cashier	maintaining_billing_system
10	9	stock_keeper	maintaining_stock
11	10	customer_helper	helping_customers

Query executed successfully.

LN 115 Col 20 Ch 20 INS

12:32 PM 1/11/2023

The screenshot displays two instances of Microsoft SQL Server Management Studio (SSMS) running side-by-side. Both windows have the title bar "SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio".

**Top Window (Left):**

- Object Explorer:** Shows the database structure under "(LocalDB)\MSSQLLocalDB master".
- Script Editor:** Contains the following T-SQL script:

```
insert into roles_(id,name,description)values(87,'cleark','maintaining_files');
insert into roles_(id,name,description)values(88,'cashier','maintaining_billing_system');
insert into roles_(id,name,description)values(89,'stock_keeper','maintaining_stock');
insert into roles_(id,name,description)values(10,'customer_helper','helping_customers');

select*from roles_;
```

```
create table permission(
role_id int,
Id int,
module varchar(20),
name varchar(20),
primary key (id)
);
```
- Messages:** Displays the message "Command completed successfully." and the completion time "Completion time: 2023-01-11T12:39:41.8088742+05:30".
- Status Bar:** Shows "124 %", "Query executed successfully.", and the status bar with "12:39 PM 1/11/2023".

**Bottom Window (Right):**

- Object Explorer:** Shows the database structure under "(LocalDB)\MSSQLLocalDB master".
- Script Editor:** Contains the following T-SQL script:

```
select*from roles_;
```

```
create table permission(
role_id int,
Id int,
module varchar(20),
name varchar(20),
primary key (id)
);
```

```
insert into permission(role_id,id,module,name)values(01,001,'manage_payment','full_access');
```
- Messages:** Displays the message "(1 row affected)" and the completion time "Completion time: 2023-01-11T12:41:51.7413629+05:30".
- Status Bar:** Shows "124 %", "Query executed successfully.", and the status bar with "12:42 PM 1/11/2023".

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

```

insert into permission(role_id,id,module,name)values(01,001,'manage_payment','full_access');
insert into permission(role_id,id,module,name)values(02,002,'manage_system','full_access');
insert into permission(role_id,id,module,name)values(03,003,'records_update','full_access');
insert into permission(role_id,id,module,name)values(04,004,'update_database','full_access');
insert into permission(role_id,id,module,name)values(05,005,'manage_payment','full_access');
insert into permission(role_id,id,module,name)values(06,006,'manage_system','half_access');
insert into permission(role_id,id,module,name)values(07,007,'records_checking','full_access');
insert into permission(role_id,id,module,name)values(08,008,'manage_payment','full_access');
insert into permission(role_id,id,module,name)values(09,009,'record_update','full_access');
insert into permission(role_id,id,module,name)values(10,010,'manage_system','full_access');
insert into permission(role_id,id,module,name)values(11,011,'manage_payment','full_access');

select*from permission;

```

Query executed successfully.

role_id	id	module	name
1	1	manage_payment	full_access
2	2	manage_system	full_access
3	3	records_update	full_access
4	4	update_database	full_access
5	5	manage_payment	full_access
6	6	manage_system	half_access
7	7	records_checking	full_access
8	8	manage_payment	full_access
9	9	record_update	full_access
10	10	manage_system	full_access
11	11	manage_payment	full_access

Ready 28°C Sunny 12:48 PM 1/11/2023

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

```

insert into permission(role_id,id,module,name)values(09,009,'record_update','full_access');
insert into permission(role_id,id,module,name)values(10,010,'manage_system','full_access');
insert into permission(role_id,id,module,name)values(11,011,'manage_payment','full_access');

select*from permission;

create table inventory_items(
    id int not null,
    description varchar(20),
    number int,
    items varchar(100),
    type varchar(20),
    primary key (id)
);

```

Commands completed successfully.

Completion time: 2023-01-11T12:55:42.5445389+05:30

Query executed successfully.

id	description	number	items	type
----	-------------	--------	-------	------

Ready 28°C Sunny 12:55 PM 1/11/2023

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar indicates the connection is to a LocalDB instance named 'Laptop-HR7J7V\lacer (S2)'. The Object Explorer on the left shows the database structure, including 'master' and 'MSSQLLocalDB'. The central pane displays a query window with the following T-SQL code:

```
select * from permission;

create table inventory_items(
    id int not null,
    description varchar(20),
    number int,
    items varchar(100),
    type varchar(20),
    primary key (id)
);

insert into inventory_items(id,description,number,items,type)values(00001,'raw material',1,'item_01','finished_goods');
```

Below the code, the status bar shows '1 row affected' and a completion time of '2023-01-11T12:59:44.3993276+05:30'. The bottom right corner of the status bar has a red error icon.

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to LocalDB\MSQLLocalDB master (LAPTOP-HR7J7VVLacer (52)). The main window has the following components:

- Object Explorer** (left pane): Shows the database structure with nodes like Databases, Tables, Views, and Security.
- SQLQuery1.sql** (top center): The current query file.
- Query Editor** (center): Contains the following T-SQL code:

```
insert into inventory_items(id,description,number,items,type)values('00001','raw material',1,'item_01','finished_goods');
insert into inventory_items(id,description,number,items,type)values('00002','raw material',2,'item_02','stationeries');
insert into inventory_items(id,description,number,items,type)values('00003','cooked material',3,'item_03','finished_goods');
insert into inventory_items(id,description,number,items,type)values('00004','raw material',4,'item_04','sea_foods');
insert into inventory_items(id,description,number,items,type)values('00005','raw material',5,'item_05','fish,Salmon');
insert into inventory_items(id,description,number,items,type)values('00006','raw material',6,'item_06','beverages');
insert into inventory_items(id,description,number,items,type)values('00007','raw material',7,'item_07','stationaries');
insert into inventory_items(id,description,number,items,type)values('00008','raw material',1,'item_08','finished_goods');
insert into inventory_items(id,description,number,items,type)values('00009','raw material',8,'item_09','bakery');
insert into inventory_items(id,description,number,items,type)values('00010','raw material',10,'item_10','finished_goods');
insert into inventory_items(id,description,number,items,type)values('00011','boiled',11,'item_78','finished_goods');

select * from inventory_items;
```
- Results** (bottom center): Displays the results of the last query as a table:

	id	description	number	items	type
1	1	raw material	1	item_01	finished_goods
2	2	raw material	2	item_02	stationaries
3	3	cooked material	3	item_03	finished_goods
4	4	raw material	4	item_04	sea_foods
5	5	raw material	5	item_05	fish,Salmon
6	6	raw material	6	item_06	beverages
7	7	raw material	7	item_07	stationaries
8	8	raw material	1	item_08	finished_goods
9	9	raw material	8	item_09	bakery
10	10	raw material	10	item_10	finished_goods
11	11	boiled	11	item_78	finished_goods

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

```

insert into inventory_items(id,description,number,items,type)values(00010,'raw material',10,'item_10','finished_goods');
insert into inventory_items(id,description,number,items,type)values(00011,'boilled',11,'item_78','finished_goods');

select*from inventory_items;

create table product(
id int,
price decimal(10,2),
catogorey_id int,
name varchar(20),
description varchar(50),
qty_stock int,
primary key(id)
);

```

113 % 113 %

Messages

Commands completed successfully.

Completion time: 2023-01-11T13:10:58.0746658+05:30

Query executed successfully.

LN 170 Col 3 Ch 3 INS

28°C Sunny

SQLQuery1.sql - (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

```

insert into inventory_items(id,description,number,items,type)values(00010,'raw material',10,'item_10','finished_goods');
insert into inventory_items(id,description,number,items,type)values(00011,'boilled',11,'item_78','finished_goods');

select*from inventory_items;

create table product(
id int,
price decimal(10,2),
catogorey_id int,
name varchar(20),
description varchar(50),
qty_stock int,
primary key(id)
);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000001,1000.33,0000000001,'dhal','raw_material',25);

```

113 % 113 %

Messages

(1 row affected)

Completion time: 2023-01-11T13:14:01.4229124+05:30

Query executed successfully.

LN 171 Col 132 Ch 132 INS

Ready

28°C Sunny

SQlQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

```

primary key (id)
);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000001,1000.33,0000000001,'dhal','raw_material',25);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000002,10800.33,0000000002,'rice','raw_material',56);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000003,17880.83,0000000003,'pumkin_beatroot','raw_material',5);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000004,100000.63,0000000001,'salt','raw_material',9);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000005,10990.33,0000000006,'lime_juice','cooked_material',25);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000006,100.33,0000000007,'water_melon','beverage',59);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000008,1113.00,0000000001,'dhal_vegetables','raw_material',96);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000009,180.33,0000000009,'carrot','raw_material',63);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000010,1006.39,0000000010,'sugar_milk','raw_material',265);
insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000011,2000.33,0000000001,'cheese','raw_material',23);

select*from product

```

Query executed successfully.

Ready 28°C Sunny

SQlQuery1.sql - (LocalDB)\MSSQLLocalDB.master (LAPTOP-HR7J7VVL\acer (52)) - Microsoft SQL Server Management Studio

```

insert into product(id,price,catogorey_id,name,description,qty_stock)values(00000011,2000.33,0000000001,'cheese','raw_material',23);

select*from product;

create table invoice(
    id int,
    U_id int,
    discounted_price decimal(10,2),
    total_amount decimal(10,2),
    date_recorded date,
    primary key (id)
);

```

Commands completed successfully.

Completion time: 2023-01-11T13:36:10.2400792+05:30

Query executed successfully.

Matches: (

28°C Sunny

SQLQuery1.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio

```

create table invoice(
    id int,
    U_id int,
    discounted_price decimal(10,2),
    total_amount decimal(10,2),
    date_recorded date,
    primary key (id)
);

insert into invoice(id,U_id,discounted_price,total_amount,date_recorded)values(01,0000000001,102.3,122698.20,'2006.01.3');

```

112 % < Messages  
(1 row affected)  
Completion time: 2023-01-12T10:18:10.2537551+05:30

Query executed successfully.

SQLQuery2.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio

```

insert into invoice(id,U_id,discounted_price,total_amount,date_recorded)values(08,0000000008,2.3,1228.20,'2009.7.23');
insert into invoice(id,U_id,discounted_price,total_amount,date_recorded)values(09,0000000009,1029.3,1298.20,'2011.06.3');
insert into invoice(id,U_id,discounted_price,total_amount,date_recorded)values(10,0000000010,1028.3,188698.20,'2023.01.13');
insert into invoice(id,U_id,discounted_price,total_amount,date_recorded)values(11,0000000011,896.3,1598.20,'2022.11.9');

select * from invoice;

```

Results Messages

	id	U_id	discounted_price	total_amount	date_recorded
1	1	102.30	122698.20	2006-01-03	
2	2	1082.30	96998.20	2001-09-07	
3	3	102.99	1227568.20	2007-04-03	
4	4	10962.30	1290398.20	2010-10-03	
5	5	1562.30	6998.20	2011-07-07	
6	6	1524.30	99998.20	2011-07-07	
7	7	252.30	89998.20	2010-05-05	
8	8	2.30	1228.20	2009-07-23	
9	9	1029.30	1298.20	2011-06-03	
10	10	1028.30	188698.20	2023-01-13	
11	11	896.30	1598.20	2022-11-09	

Query executed successfully.

10:18 AM 1/12/2023

10:26 AM 1/12/2023

The screenshot shows the Microsoft SQL Server Management Studio (SSMS) interface. The title bar indicates the connection is to a LocalDB instance (LAPTOP-HR7J7VVL\acer (57)). The main area displays a T-SQL script:

```
insert into invoice(id_U_id,discounted_price,total_amount,date_recorded)values(08,0000000008,2.3,1228.20,'2009.7.23');
insert into invoice(id_U_id,discounted_price,total_amount,date_recorded)values(09,0000000009,1029.3,1298.20,'2011.06.3');
insert into invoice(id_U_id,discounted_price,total_amount,date_recorded)values(10,0000000010,1028.3,188698.20,'2023.01.13');
insert into invoice(id_U_id,discounted_price,total_amount,date_recorded)values(11,0000000011,896.3,1598.20,'2022.11.9');

select*from invoice;

create table stock(
id int not null,
type varchar(45),
description varchar(50),
primary key (id)
);
```

The status bar at the bottom shows the completion time as 2023-01-01T10:30:37.9461886+05:30 and the message "Query executed successfully."

SQLQuery2.sql - (LocalDB)\MSSQLLocalDB\supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio

File Edit View Query Project Tools Window Help

supermarket\_stock\_and\_inv Execute New Query

Object Explorer

Connect Connect to Database

(LocalDB)\MSSQLLocalDB (Server 1)

- Databases
  - System Databases
  - Database Snapshots
  - Tables
  - Views
  - Functions
  - Triggers
  - Bank
  - Max
  - Maximum
  - Supermarket\_stock\_and\_inventory
- Security
- Server Objects
- Replication
- PolyBase
- Management
- XEvent Profiler

SQLQuery2.sql - (L-HR7J7VVL\acer (57))

```
insert into stock(id,type,description)values(001,'work_in_progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(002,'queued','still_didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(003,'work_in_progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(004,'distributed','distributed_for_supermarket');
insert into stock(id,type,description)values(005,'work_in_progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(006,'queued','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(007,'work_in_progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(008,'distributed','distributed_for_supermarket');
insert into stock(id,type,description)values(009,'work_in_progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(010,'progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(011,'work_in_progress','didnt_distribute_for_supermarket');
```

112 %

Messages

(1 row affected)

Completion time: 2023-01-12T10:37:34.9917580+05:30

Query executed successfully.

(LocalDB)\MSSQLLocalDB (15... LAPTOP-HR7J7VVL\acer (57) supermarket\_stock\_and\_... 00:00:00 0 rows

Ready

Ln 44 Col 105 Ch 105 INS

Search

10:37 AM 1/12/2023

SQLQuery2.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio

```

insert into stock(id,type,description)values(001,'work_in_progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(002,'queued','still_didn_t_distribute_for_supermarket');
insert into stock(id,type,description)values(004,'distributed','distributed_for_supermarket');
insert into stock(id,type,description)values(005,'work_in_progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(006,'queued','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(007,'work_in_progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(008,'distributed','distributed_for_supermarket');
insert into stock(id,type,description)values(010,'progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(011,'work_in_progress','didnt_distribute_for_supermarket');

select *from stock;

```

Results

	id	type	description
1	1	work_in_progress	didnt_distribute_for_supermarket
2	2	queued	still_didn_t_distribute_for_supermarket
3	3	work_in_progress	didnt_distribute_for_supermarket
4	4	distributed	distributed_for_supermarket
5	5	work_in_progress	didnt_distribute_for_supermarket
6	6	queued	didnt_distribute_for_supermarket
7	7	work_in_progress	didnt_distribute_for_supermarket
8	8	distributed	distributed_for_supermarket
9	9	work_in_progress	didnt_distribute_for_supermarket
10	10	progress	didnt_distribute_for_supermarket
11	11	work_in_progress	didnt_distribute_for_supermarket

Query executed successfully.

Ready

File Edit View Query Project Tools Window Help

Object Explorer

Connect ▾

(LocalDB)\MSSQLLocalDB (SQL Server 1)

- Databases
  - System Databases
  - Database Snapshots
  - abs
  - bank
  - max
  - maximum
  - supermarket\_stock\_and\_inventory.u
  - Security
  - Server Objects
  - Replication
  - PolyBase
  - Management
  - XEvent Profiler

SQLQuery2.sql - (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio

```

insert into stock(id,type,description)values(010,'progress','didnt_distribute_for_supermarket');
insert into stock(id,type,description)values(011,'work_in_progress','didnt_distribute_for_supermarket');

select *from stock;

create table supplier(
    id int not null,
    phone_no int,
    company_name varchar(50),
    location_id varchar(50),
    primary key(id)
);

```

Messages

Commands completed successfully.

Completion time: 2023-01-12T10:41:03.2805680+05:30

Query executed successfully.

Matches:

File Edit View Query Project Tools Window Help

supermarket\_stock\_and\_inventory

Object Explorer

SQLQuery2.sql - (LocalDB)\MSSQLLocalDB (SQL Server 1)

```
select * from stock;
```

```
create table supplier(
    id int not null,
    phone_no int,
    company_name varchar(50),
    location_id varchar(50),
    primary key(id)
);

insert into supplier(id,phone_no,company_name,location_id)values(0000000001,0136598741,'laughs','colombo');
insert into supplier(id,phone_no,company_name,location_id)values(0000000002,0136595551,'laughs','colombo_02');
insert into supplier(id,phone_no,company_name,location_id)values(0000000003,0139998741,'keels_super','kandy');
```

112 % Messages  
(1 row affected)  
Completion time: 2023-01-12T10:44:29.0573790+05:30

Item(s) Saved

Quick Launch (Ctrl+Q)

File Edit View Query Project Tools Window Help

supermarket\_stock\_and\_inventory

Object Explorer

SQLQuery2.sql - (LocalDB)\MSSQLLocalDB (SQL Server 1)

```
insert into supplier(id,phone_no,company_name,location_id)values(0000000001,0136598741,'laughs','colombo');
insert into supplier(id,phone_no,company_name,location_id)values(0000000002,0136595551,'laughs','colombo_02');
insert into supplier(id,phone_no,company_name,location_id)values(0000000003,0139998741,'keels_super','kandy');
insert into supplier(id,phone_no,company_name,location_id)values(0000000004,0112369741,'shan_super','aniwatte');
insert into supplier(id,phone_no,company_name,location_id)values(0000000005,0969998741,'hehs_super','habavita');
insert into supplier(id,phone_no,company_name,location_id)values(0000000006,0123658741,'mathara_super','dikhen');
insert into supplier(id,phone_no,company_name,location_id)values(0000000007,0196331478,'keels_super','ja_elia');
insert into supplier(id,phone_no,company_name,location_id)values(0000000008,0819998741,'cargils','homagama');
insert into supplier(id,phone_no,company_name,location_id)values(0000000009,0299998741,'keels_super','ranala');
insert into supplier(id,phone_no,company_name,location_id)values(0000000010,0139998636,'super_six','mathara');
insert into supplier(id,phone_no,company_name,location_id)values(0000000011,01396478741,'super_house','trinco');
```

```
select * from supplier;
```

112 % Results Messages

	id	phone_no	company_name	location_id
1	1	136598741	laughs	colombo
2	2	136595551	laughs	colombo_02
3	3	139998741	keels_super	kandy
4	4	112369741	shan_super	aniwatte
5	5	969998741	hehs_super	habavita
6	6	0123658741	mathara_super	dikhen
7	7	0196331478	keels_super	ja_elia
8	8	0819998741	cargils	homagama
9	9	299998741	keels_super	ranala
10	10	139998636	super_six	mathara
11	11	1396478741	super_house	trinco

Query executed successfully.

Ready

Quick Launch (Ctrl+Q)

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar reads "SQLQuery2.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio". The Object Explorer sidebar on the left lists the database structure, including tables like abs, bank, max, maximum, and supermarket\_stock\_and\_inventory. The main query editor window contains the following T-SQL code:

```
select*from supplier;  
CREATE TRIGGER supplier_insert  
on invoice  
for insert  
as  
select*from invoice
```

The status bar at the bottom indicates "Query executed successfully." and provides session details: "(LocalDB)\MSSQLLocalDB (15...)" and "supermarket\_stock\_and\_... 00:00:00 0 rows".

The screenshot shows the Microsoft SQL Server Management Studio interface. The Object Explorer on the left lists the database structure, including System Databases, Database Snapshots, and the current database 'supermarket\_stock\_and\_inventory\_control\_system'. The 'Tables' node under the database is expanded, showing 'supplier' and 'invoice'. The 'Scripting' tab is selected for the 'supplier' table. The main results pane displays the T-SQL code for creating a trigger:

```
select * from supplier;

CREATE_TRIGGER supplier_insert
on invoice
for insert
as
select * from invoice
```

Below the code, the 'Messages' section shows the execution results:

```
Commands completed successfully.
Completion time: 2023-01-12T11:23:29.3549421+05:30
```

The status bar at the bottom indicates 'Query executed successfully.'

```
on invoice
for insert
as
select*from invoice

create trigger stock_update
on stock
after update
as
select*from stock
```

SQLQuery2.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio

```

create trigger stock_update
on stock
after update
as
select*from stock

create function find_name(@id char (4))
returns varchar(50)
as begin
return(select id
from supplier
where id =@id)
end

```

112 %

Messages

Commands completed successfully.

Completion time: 2023-01-12T11:36:23.1528801+05:30

Query executed successfully.

LN 89 Col 4 Ch 4 INS

Matches: begin

29°C Partly sunny

SQLQuery2.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio

```

create trigger stock_update
on stock
after update
as
select*from stock

create function find_name(@id char (4))
returns varchar(50)
as begin
return(select id
from supplier
where id =@id)
end

```

112 %

Messages

Commands completed successfully.

Completion time: 2023-01-12T11:36:23.1528801+05:30

Query executed successfully.

LN 89 Col 4 Ch 4 INS

Ready

29°C Partly sunny

The screenshot shows the Microsoft SQL Server Management Studio interface. The title bar reads "SQLQuery2.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio". The main window has two panes: "Object Explorer" on the left and "SQLQuery2.sql" on the right. The Object Explorer pane shows the database structure, including tables like "abs", "bank", "max", "maximum", and "supermarket\_stock\_and\_inventory". The SQL pane contains the following T-SQL code:

```
where id =@id
end

create function stock_details(@id char(5))
returns table
as
return
(select id,type,description
from stock
where id =@id)
```

The status bar at the bottom indicates "Query executed successfully." and "Completion time: 2023-01-12T11:45:06.1102694+05:30". The taskbar at the bottom of the screen shows various application icons.

SQLQuery2.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio

```

create function stock_details(@id char(5))
returns table
as
return
(select id,type,description
from stock
where id=@id)

create view [keels_super_suppliers]as
select id,company_name
from supplier
where company_name='keels_super';

select*from keels_super_suppliers;

```

Messages

Commands completed successfully.

Completion time: 2023-01-12T11:52:31.4507976+05:30

Query executed successfully.

Ready

30°C Partly sunny

112 %

LN 103 Col 1 Ch 1 INS

SQLQuery2.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio

```

create function stock_details(@id char(5))
returns table
as
return
(select id,type,description
from stock
where id=@id)

create view [keels_super_suppliers]as
select id,company_name
from supplier
where company_name='keels_super';

select*from keels_super_suppliers;

```

Results

	id	company_name
1	3	keels_super
2	7	keels_super
3	9	keels_super

Messages

Commands completed successfully.

Completion time: 2023-01-12T11:52:31.4507976+05:30

Query executed successfully.

Ready

30°C Partly sunny

112 %

LN 105 Col 1 Ch 1 INS

SQLQuery2.sql - (LocalDB)\MSSQLLocalDB.supermarket\_stock\_and\_inventory\_control\_system (LAPTOP-HR7J7VVL\acer (57)) - Microsoft SQL Server Management Studio

```

File Edit View Query Project Tools Window Help
File Object Explorer Tools Status Bar
SQLQuery2.sql - (L-HR7J7VVL\acer (57)) * Execute
where id=@id

create view [keels_super_suppliers]as
select id,company_name
from supplier
where company_name='keels_super';

select*from keels_super_suppliers;

create view [stock_description]as
select id,description
from stock
where description='distributed'
for_supermarket';

112 % Messages Commands completed successfully.
Completion time: 2023-01-12T11:57:03.1772536+05:30
112 % Query executed successfully.

```

Object Explorer

File Edit View Query Project Tools Window Help

SQLQuery2.sql - (L-HR7J7VVL\acer (57)) \* Execute

```

create procedure select_all_suppliers
as
select*from supplier
go;

```

112 % Messages Commands completed successfully.

Completion time: 2023-01-12T12:03:46.2684464+05:30

112 % Query executed successfully.

The image displays two separate sessions of Microsoft SQL Server Management Studio (SSMS) running on a Windows operating system. Both sessions are connected to the same database, 'supermarket\_stock\_and\_inventory\_control\_system'.

**Session 1 (Top Window):**

- Object Explorer:** Shows the database structure, including System Databases (master, model, msdb, tempdb), Database Snapshots (abs, bank, max, maximum), and the 'supermarket\_stock\_and\_inventory\_control' database which contains Tables (category, customer, invoice, login, stock, supplier, user), Views, External Resources, Synonyms, Programmability, and Functions.
- Query Editor:** Contains the following T-SQL code:

```
where description='didn't-distributed-for._supermarket';

select*from stock_description;

create procedure select_all_suppliers
as
select*from supplier
go;

exec select_all_suppliers;
```
- Results Grid:** Displays the results of the 'select\_all\_suppliers' query, showing 11 rows of data from the 'supplier' table. The columns are: id, phone\_no, company\_name, location\_id. The data includes entries like (1, 136598741, lauga, colombo), (2, 13659551, lauga, colombo\_02), (3, 3, 139998741, keels\_super, kandy), etc.
- Messages:** Shows the message "Query executed successfully."

**Session 2 (Bottom Window):**

- Object Explorer:** Shows the same database structure as Session 1.
- Query Editor:** Contains the following T-SQL code:

```
create procedure select_all_suppliers
as
select*from supplier
go;

exec select_all_suppliers;

create procedure select_all_discounted_prices
as
select*from invoice
go;
```
- Messages:** Shows the message "Commands completed successfully." and "Completion time: 2023-01-12T12:12:06.0935418+05:30".
- Results Grid:** Displays the results of the 'select\_all\_discounted\_prices' query, showing 0 rows.
- Messages:** Shows the message "Query executed successfully."

The screenshot shows the Microsoft SQL Server Management Studio interface. In the Object Explorer, the database 'supermarket\_stock\_and\_inventory\_control' is selected. A query window titled 'SQLQuery2.sql' contains the following T-SQL code:

```
create procedure select_all_suppliers
as
select*from supplier
go;

exec select_all_suppliers;

create procedure select_all_discounted_price
as
select*from invoice
go;

exec select_all_discounted_price;
```

The 'Results' tab displays the output of the 'select\_all\_discounted\_price' procedure, showing 11 rows of data:

	id	U_id	discounted_price	total_amount	date_recorded
1	1	1	102.30	122998.20	2006-01-03
2	2	2	1082.30	96998.20	2001-09-07
3	3	3	102.99	1227568.20	2007-04-03
4	4	4	10962.30	1290382.20	2010-11-03
5	5	5	1562.30	69698.20	2011-07-07
6	6	6	19782.30	69972688.20	2008-06-07
7	7	7	252.30	89982.20	2009-08-08
8	8	8	2.30	1288.20	2009-07-23
9	9	9	1029.30	12988.20	2011-06-03
10	10	10	1028.30	188998.20	2023-01-13
11	11	11	896.30	1588.20	2022-11-09

At the bottom of the query window, a message states: 'Query executed successfully.'