

Project name

Grocery Park

Database System Lab
CSE 210

Project Team :

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Chapter - 1

1.1 Introduction

Super Shop is the active control program which allow the sales and purchase related activities.

Super Shop management software helps create invoices, product category, purchase orders, receiving lists, payment receipts and can print bar code labels. A super shop management software system configured to our warehouse, retail or product line will help to create revenue for company. The super shop management will control operating costs and provide better understanding.

1.2 Objectives

The main objective of the super shop management system is to management details of stock, payment, sales, discounts and products. It manages all the information about stock, inventory and products. The products are totally build at the administrative end thus only the administrator is grunted access.

1.3 Goals

The main aim of this type of software is to automate the existing manual system by the help of computerized equipment and software.

Chapter - 2

2.1 Required Components

To complete this project we have used several tools like

1. XAMPP:

An abbreviation for cross-platform, Apache, MySQL, PHP and Perl, and its allow you to build Word Press site offline on a local web server on your computer.

2. MySQL:

MySQL is an open-source relational database management system.

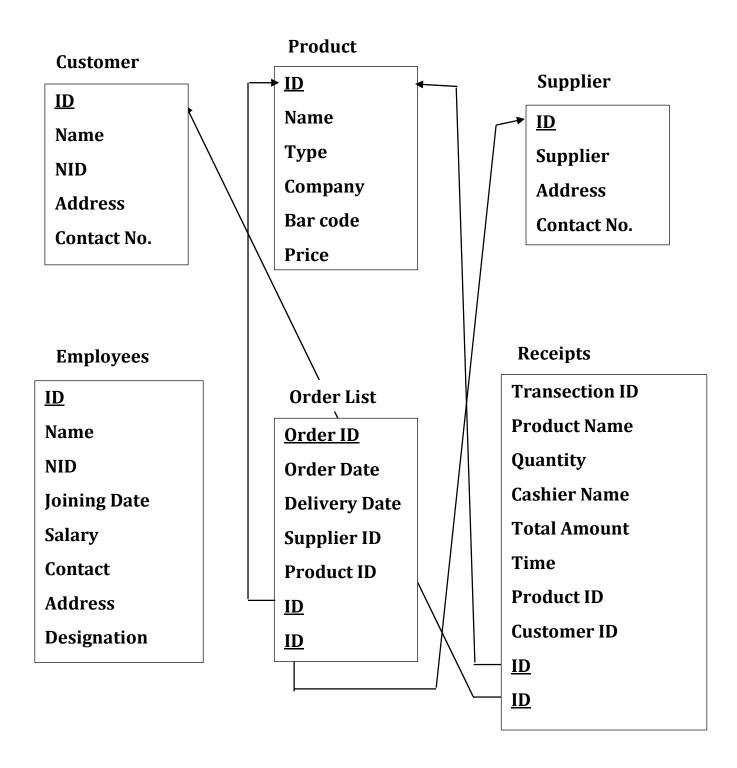
3. Operating System: **Windows 10**

Chapter - 3

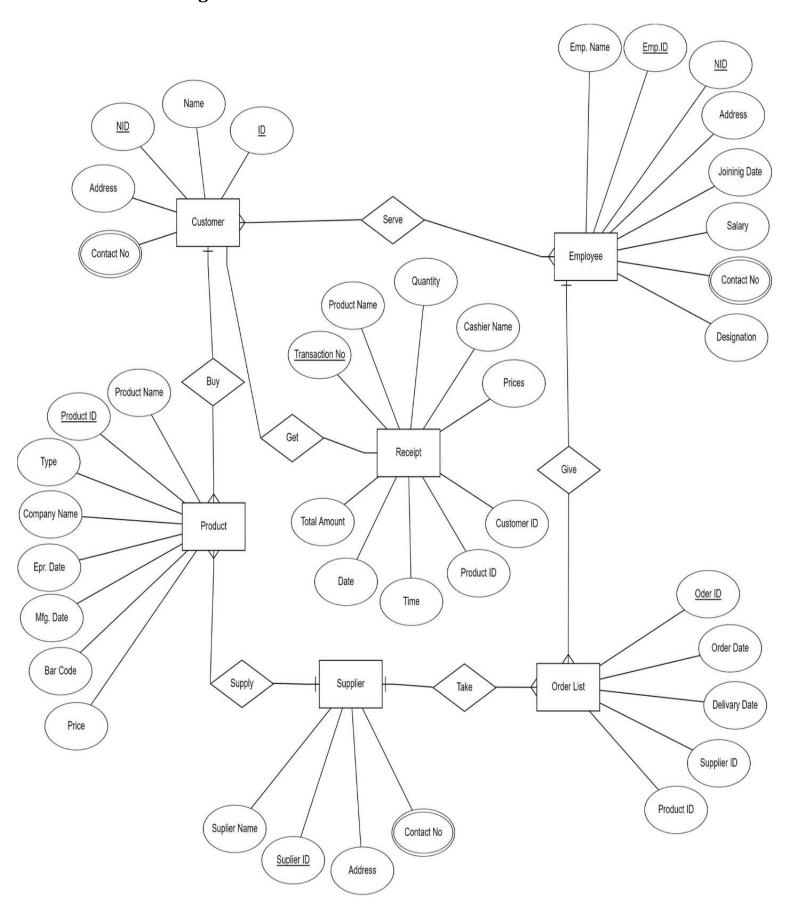
3.1 Entity Relation:

An Entity Relationship (ER) diagram is a form of flowchart that shows how "entities" such as people, objects, or concepts interact with one another within a system. In the Database area, ER diagrams are most commonly used to develop or debug relational databases. It is visual representation of various entities within a system and how they interact with one another. The relational model can be represented as a table with columns and rows. Each row is referred to as a tuple. Each column table has a name or attribute. This type of model is used to organize data and identify links between key data elements. They make it simple to filter and find information.

3.2 The Relational Schema



3.3 ER Diagram



3.4 Key Constraint

Entities	Attribute
Customers	Name, ID, NID, Address, Contact no
Employees	Name, ID, NID, Joining Date, Salary, Contact no, Address, designation
Products	Name, ID, type, company Name, Exp. Date, Mfg. date, Bar code, price
Receipt	Transaction no, Products name, Quantity, Cashier Name, Total Amount ,date, product id, customer id
Suppliers	Supplier name, ID, Address, Contact no
Order List	Order ID, Order Date, Delivery Date, Supplier ID, Product ID

To implement this project we have use some key constraints such as primary key, foreign key, unique key, not null, current date and time format. Now we will go through all of them.

In our project we have **6 tables** under a database.

In our **customers** table we have. Customer ID as primary, Contract number and NID number as unique key.

In our **Employees** table we have employee name ID as primary key, NID, contractnumber as unique key. Joining date as date format.

In our **products** table we have product id as primary key. Manufacture and Expiredate as date format. Bar code as unique format.

In our **receipts** table we have transection no as primary key, transection date in date format, product id and customer id as foreign key respectively from product and customer table.

In our **suppliers** table we have supplier id as primary key and contract number asunique key.

In our **order list** table we have order id as primary key supplier and product id asforeign key.

Key Constraints definitions:

Primary key: The PRIMARY KEY constraint uniquely identifies each record in a table. Primary keys must contain UNIQUE values, and cannot contain NULL values. A table can have only ONE primary key; and in the table, this primary key can consist of single or multiple columns (fields).

Foreign key: A foreign key is a column in a relational database table that provides a relationship between two tables. It acts as a cross-reference between tables because it references the primary key of another table. We can use another table's primary key in a table through foreign key.

Unique key: A unique key is a set of one or more than one field of a table that uniquely identifies a record in a database table. We can say that it is a little like a primary key, but it can accept only one null value, and it cannot have duplicate values.

Chapter - 4

Performance Evaluation

4.1 SQL Command

Database: `grocery_park`
Table structure for table `customers`
CREATE TABLE `customers` (

```
'name' varchar(255) NOT NULL,
 'id' int(11) NOT NULL,
 `nid` int(11) NOT NULL,
 `address` varchar(255) NOT NULL,
 `contact_no` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table `customers`
INSERT INTO 'customers' ('name', 'id', 'nid', 'address', 'contact_no')
VALUES
('Sojib', 101, 123456, 'Nator', '01728382133'),
('Roni', 102, 123654, 'Mohammadpur Housing', '01628381233'),
('Joni', 103, 213456, 'Lalmatia-B-3', '01526214491'),
('Mutalab', 104, 654321, 'Sankar', '01615292399'),
('Shanto', 105, 567890, 'Kaderabadh Housing', '01674863291'),
('Samia', 106, 456789, 'Dhanmondi-15', '01555466981'),
('Ferdouse', 107, 234567, 'Kalabagan', '01678945632'),
('Raju', 108, 987654, 'Samoli', '01544496325'),
('Rokeya', 109, 789654, 'Lalmatia-B-4', '01741285369'),
('Shakib', 110, 987234, 'Satmasjid Road', '01612345698'),
('Sweety', 111, 596471, 'Jigatola', '01785225852'),
('Abbas', 112, 918273, 'Mohammadpur Housing', '01614774114'),
('Kuddus', 113, 963123, 'Dhanmondi-27', '01771471444'),
('Monisa', 114, 852258, 'Dhanmondi-15', '01745645665'),
('Tasnim', 115, 789753, 'Jigatola', '01558528552'),
('Joy', 116, 871055, 'Tatibajar', '01310320385'),
```

```
('Shourav', 117, 159826, 'Malibag', '01612035566'),
('Ratul', 118, 258826, 'Mirpur 1', '01912037771'),
('Nahid', 119, 586160, 'Kajipara', '01385236974'),
('Mursalin', 120, 741852, 'Matuail', '01588996601');
-- Table structure for table 'employees'
CREATE TABLE 'employees' (
 'name' varchar(255) NOT NULL,
 'id' int(11) NOT NULL,
 'nid' int(11) NOT NULL,
 `joining_date` date DEFAULT NULL,
 'salary' int(11) NOT NULL,
 `contact_no` varchar(11) NOT NULL,
 `address` varchar(255) NOT NULL,
 'designation' varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table 'employees'
INSERT INTO 'employees' ('name', 'id', 'nid', 'joining_date', 'salary',
`contact_no`, `address`, `designation`) VALUES
('Fakur', 501, 159623, '2018-05-05', 7500, '01776212449', 'Barishal', 'Sales
Executive'),
('Rosy', 502, 159632, '2018-07-02', 7500, '01776214944', 'Noakhali', 'Sales
Executive'),
```

```
('Riya', 504, 159624, '2018-05-05', 7500, '01776212400', 'Dhaka', 'Sales
Executive'),
('Rimi', 505, 159635, '2018-05-02', 7500, '01776214955', 'Dhaka', 'Sales
Executive'),
('Toma', 506, 156565, '2017-09-04', 9500, '01765121944', 'Narayanganj',
'Accountant'),
('Touhidul', 507, 164556, '2017-05-03', 10500, '01628382133', 'Bagerhat',
'Manager'),
('Shattar', 508, 145003, '2022-01-01', 4500, '01700022233', 'Bola',
'Cleaner'),
('Shohan', 509, 201035, '2022-07-01', 7000, '01985235954', 'Noya Polton',
'Sales Executive'),
('Shihab', 510, 807098, '2022-08-02', 6500, '01985612358',
'Shahjahanpur', 'Assistant Manager'),
('Puspa', 511, 159352, '2022-06-01', 7500, '01766541800', 'Taltola', 'Brand
Manager');
__ ______
-- Table structure for table 'order list'
CREATE TABLE 'order_list' (
`order_id` int(11) NOT NULL,
 `order_date` date DEFAULT NULL,
 'delivery date' date DEFAULT NULL,
`suplier_id` int(11) NOT NULL,
`product_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
```

```
-- Dumping data for table `order_list`
INSERT INTO 'order_list' ('order_id', 'order_date', 'delivery_date',
`suplier_id`, `product_id`) VALUES
(10001, '2022-02-01', '2022-02-05', 904, 105),
(10002, '2022-03-05', '2022-03-10', 901, 100),
(10003, '2022-03-05', '2022-03-10', 901, 101),
(10004, '2022-03-05', '2022-03-10', 901, 102),
(10005, '2022-04-05', '2022-04-10', 903, 104),
(10006, '2022-03-05', '2022-03-12', 905, 107),
(10007, '2022-05-15', '2022-05-17', 902, 113),
(10008, '2022-06-05', '2022-06-07', 902, 112),
(10009, '2022-07-10', '2022-07-11', 906, 105),
(10010, '2022-07-15', '2022-07-17', 904, 106),
(10011, '2022-08-21', '2022-08-22', 905, 114);
-- Table structure for table `products`
CREATE TABLE 'products' (
'name' varchar(255) NOT NULL,
 `id` int(11) NOT NULL,
 `type` varchar(255) NOT NULL,
 `companyName` varchar(255) NOT NULL,
 'bar_code' int(11) NOT NULL,
 'price' varchar(255) NOT NULL
```

```
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table 'products'
INSERT INTO 'products' ('name', 'id', 'type', 'companyName', 'bar code',
`price`) VALUES
('7up(600ml)', 100, 'Beverage', 'PepsiCo', 1234, '35.00'),
('7up(1.25ltr)', 101, 'Beverage', 'PepsiCo', 1235, '60.00'),
('7up(2.25ltr)', 102, 'Beverage', 'PepsiCo', 1236, '110.00'),
('Mountain Dew (600ml)', 103, 'Beverage', 'PepsiCo', 1237, '35.00'),
('Speed (250ml)', 104, 'Beverage', 'Akij Food and Beverage Ltd (AFBL)',
1238, '35.00'),
('Rupchanda(2 ltr)', 105, 'Soyabean Oil', 'Indian Adani Wilmar Ltd', 4321,
'286.00'),
('Fresh(5 ltr)', 106, 'Soyabean Oil', 'Edible Oil', 4322, '728.00'),
('Chashi Aromatic Chinigura Rice(1 kg)', 107, 'Rice', 'Square', 5431,
'130.00'),
('Chashi Aromatic Chinigura Rice(5 kg)', 108, 'Rice', 'Square', 5432,
'630.00'),
('Aarong Dairy(1 ltr)', 109, 'Dairy Milk', 'Arong', 6541, '75.00'),
('Aarong Dairy(500 ml)', 110, 'Dairy Milk', 'Arong', 6542, '40.00'),
('Gold Coffee', 111, 'Coffee', 'ACI Ltd', 2581, '410'),
('Mustard Oil (250 ml) ', 112, 'Oil', 'ACI Ltd', 2418, '75'),
('ACI Pure Najirshail Rice (10 kg)', 113, 'Rice', 'ACI Ltd', 4758, '875'),
('CORONA BEER 330ml', 114, 'Drinks', 'AB InBev', 2356, '550'),
('BREAD', 115, 'Braed', 'Bosundhara', 1406, '50');
```

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```
-- Table structure for table `receipt`
CREATE TABLE `receipt` (
 `transaction_no` int(11) NOT NULL,
 `product_name` varchar(255) NOT NULL,
 'quantity' double(10,2) NOT NULL,
 `cashier_name` varchar(20) NOT NULL,
 `total_amount` varchar(255) NOT NULL,
 `time_` datetime NOT NULL DEFAULT current_timestamp(),
 `product_id` int(11) NOT NULL,
 `customer_id` int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table `receipt`
INSERT INTO 'receipt' ('transaction_no', 'product_name', 'quantity',
`cashier_name`, `total_amount`, `time_`, `product_id`, `customer_id`) VALUES
(1, '7up', 1.00, 'Toma', '35.00', '2022-04-19 00:05:40', 100, 107),
(2, 'Rupchanda', 1.00, 'Toma', '286.00', '2022-04-19 00:47:02', 105, 107),
(3, 'Chashi Aromatic Chinigura Rice', 1.00, 'Toma', '130.00', '2022-04-19
00:47:02', 107, 107),
(4, 'Chashi Aromatic Chinigura Rice', 1.00, 'Toma', '130.00', '2022-04-19
00:49:07', 107, 107),
(5, 'Chashi Aromatic Chinigura Rice', 1.00, 'Toma', '630.00', '2022-04-19
00:50:05', 108, 115),
(6, 'Speed', 1.00, 'Toma', '25.00', '2022-04-19 00:51:30', 104, 111),
(7, 'Speed', 4.00, 'Toma', '100.00', '2022-04-19 00:52:45', 104, 109),
(8, 'Fresh(5ltr)', 2.00, 'Toma', '1450', '2022-04-19 20:29:15', 106, 111),
```

```
(9, 'Aarong Dairy(1ltr)', 2.00, 'Toma', '150', '2022-04-19 20:29:15', 109,
115),
(10, 'Gold Coffee', 1.00, 'Toma', '410', '2022-09-02 19:50:59', 111, 120),
(11, 'CORONA BEER', 6.00, 'Toma', '3300', '2022-09-02 19:50:59', 114,
116),
(12, 'ACI Pure Najirshail Rice (10 kg)', 1.00, 'Toma', '875', '2022-09-02
19:50:59', 113, 117);
-- Table structure for table 'supplier'
CREATE TABLE 'supplier' (
 `supplier_name` varchar(255) NOT NULL,
 'id' int(11) NOT NULL,
 'address' varchar(255) NOT NULL,
 `contact_no` varchar(255) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4;
-- Dumping data for table `supplier`
INSERT INTO `supplier` (`supplier_name`, `id`, `address`, `contact_no`)
VALUES
('RR Enterprise', 901, 'Gazipur', '01345678947'),
('Arong', 902, 'Dhaka', '01396336963'),
('SKD Traders', 903, 'Khulna', '01772621944'),
('Meghna LTD', 904, 'Narayangang', '0137415983'),
('RPG Trade', 905, 'Mymenshing', '01385245675'),
('Shaheen Food Suppliers', 906, 'Dhaka', '01782563321'),
```

```
('Organic Manure Enterprise', 907, 'Chottogram', '01965214589'),
('Goods From BD', 908, 'Gazipur', '01832144567');
-- Indexes for dumped tables
-- Indexes for table 'customers'
ALTER TABLE 'customers'
ADD PRIMARY KEY ('id'),
ADD UNIQUE KEY 'nid' ('nid'),
ADD UNIQUE KEY `contact_no` (`contact_no`);
-- Indexes for table 'employees'
ALTER TABLE 'employees'
ADD PRIMARY KEY ('id'),
ADD UNIQUE KEY 'nid' ('nid'),
ADD UNIQUE KEY `contact_no` (`contact_no`);
-- Indexes for table `order_list`
ALTER TABLE `order_list`
ADD PRIMARY KEY ('order_id'),
```

```
ADD KEY `suplier_id` (`suplier_id`),
ADD KEY 'product_id' ('product_id');
-- Indexes for table `products`
ALTER TABLE 'products'
ADD PRIMARY KEY ('id'),
ADD UNIQUE KEY `bar_code` (`bar_code`);
-- Indexes for table `receipt`
ALTER TABLE 'receipt'
ADD PRIMARY KEY ('transaction_no'),
ADD KEY `product_id` (`product_id`),
ADD KEY `customer_id` (`customer_id`);
-- Indexes for table `supplier`
ALTER TABLE 'supplier'
ADD PRIMARY KEY ('id');
-- AUTO_INCREMENT for dumped tables
```

```
-- AUTO_INCREMENT for table `employees`
ALTER TABLE 'employees'
MODIFY 'id' int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=564232;
-- AUTO_INCREMENT for table `order_list`
ALTER TABLE `order_list`
MODIFY 'order_id' int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=10012;
-- AUTO_INCREMENT for table `products`
ALTER TABLE 'products'
MODIFY 'id' int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=116;
-- AUTO_INCREMENT for table `receipt`
ALTER TABLE 'receipt'
MODIFY 'transaction_no' int(11) NOT NULL AUTO_INCREMENT,
AUTO_INCREMENT=13;
```

```
-- AUTO_INCREMENT for table `supplier`
ALTER TABLE 'supplier'
MODIFY 'id' int(11) NOT NULL AUTO_INCREMENT,
AUTO INCREMENT=909;
-- Constraints for dumped tables
-- Constraints for table `order_list`
ALTER TABLE `order_list`
ADD CONSTRAINT `order_list_ibfk_1` FOREIGN KEY (`suplier_id`)
REFERENCES 'supplier' ('id'),
ADD CONSTRAINT `order_list_ibfk_2` FOREIGN KEY (`product_id`)
REFERENCES 'products' ('id');
-- Constraints for table 'receipt'
ALTER TABLE 'receipt'
ADD CONSTRAINT `receipt_ibfk_1` FOREIGN KEY (`product_id`)
REFERENCES 'products' ('id'),
ADD CONSTRAINT 'receipt_ibfk_2' FOREIGN KEY ('customer_id')
REFERENCES `customers` (`id`);
COMMIT;
```

Results

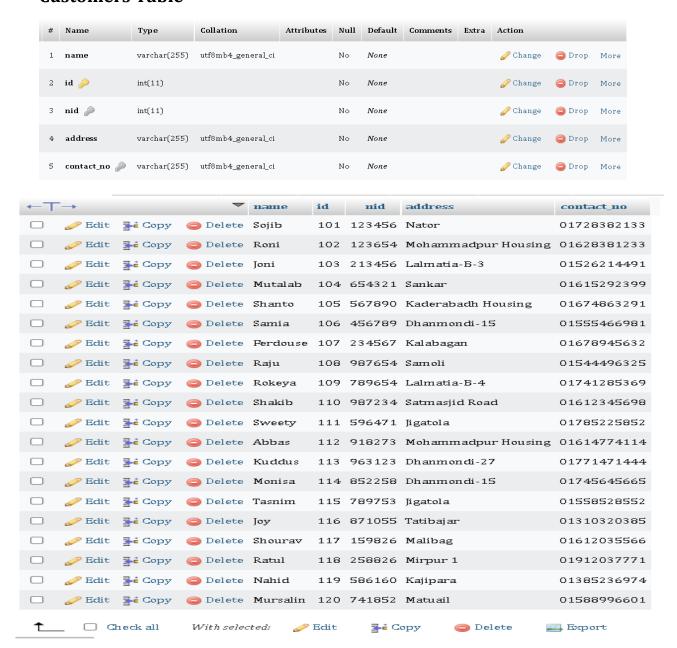
4.2 Tables and Structure

Grocery Park





Customers Table



Employees Table

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	name	varchar(255)	utf8mb4_general_ci		No	None			⊘ Change	Orop	More
2	id 🔑	int(11)			No	None		AUTO_INCREMENT	<i>⊘</i> Change	O Drop	More
3	nid 🔑	int(11)			No	None			€ Change	Drop	More
4	joining_date	date			Yes	NULL			⊘ Change	Orop	More
5	salary	int(11)			No	None			€ Change	Orop	More
6	contact_no 🔊	varchar(11)	utf8mb4_general_ci		No	None			<i>⊘</i> Change	Orop	More
7	address	varchar(255)	utf8mb4_general_ci		No	None			€ Change	Orop	More
8	designation	varchar(255)	utf8mb4_general_ci		No	None			€ Change	Orop	More

←Ţ	→		▽	name	id	nid	joining_date	salary	contact_no	address	designation
	🥜 Edit	🂤 Сору	Delete	Fakur	501	159623	2018-05-05	7500	01776212449	Barishal	Sales Executive
	€ Edit	≩ € Сору	O Delete	Rosy	502	159632	2018-07-02	7500	01776214944	Noakhali	Sales Executive
	€ Edit	≩ € Сору	Delete	Riya	504	159624	2018-05-05	7500	01776212400	Dhaka	Sales Executive
	€ Edit	≩ Сору	Delete	Rimi	505	159635	2018-05-02	7500	01776214955	Dhaka	Sales Executive
	🥜 Edit	🂤 Сору	Delete	Toma	506	156565	2017-09-04	9500	01765121944	Narayanganj	Accountant
	€ Edit	≩ € Сору	Delete	Touhidul	507	164556	2017-05-03	10500	01628382133	Bagerhat	Manager
	€ Edit	≩• Сору	Delete	Shattar	508	145003	2022-01-01	4500	01700022233	Bola	Cleaner
	€ Edit	} € Сору	Delete	Shohan	509	201035	2022-07-01	7000	01985235954	Noya Polton	Sales Executive
	🥜 Edit	≩ Сору	Delete	Shihab	510	807098	2022-08-02	6500	01985612358	Shahjahanpur	Assistant Manager
	€ Edit	≩ Сору	Delete	Puspa	511	159352	2022-06-01	7500	01766541800	Taltola	Brand Manager

Order List Table

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	order_id 🔑	int(11)			Νo	None		AUTO_INCREMENT	<i>⊘</i> Change	O Drop	More
2	order_date	date			Yes	NULL			<i>⊘</i> Change	O Drop	More
3	delivery_date	date			Yes	NULL			€ Change	O Drop	More
4	suplier_id 🔑	int(11)			No	None			€ Change	O Drop	More
5	product_id 🔎	int(11)			Νo	None			€ Change	Drop	More

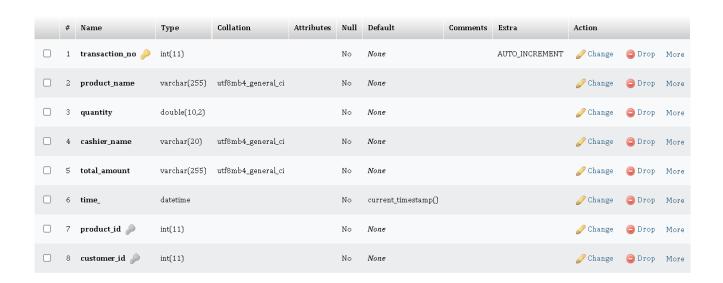
←T	→		~	order_id	order_date	delivery_date	suplier_id	product_id
	🥜 Edit	≩ Сору	Delete	10001	2022-02-01	2022-02-05	904	105
	€ Edit	≩ Copy	Delete	10002	2022-03-05	2022-03-10	901	100
	€ Edit	≩ Copy	Delete	10003	2022-03-05	2022-03-10	901	101
	€ Edit	≩ € Copy	Delete	10004	2022-03-05	2022-03-10	901	102
	€ Edit	≩ € Copy	Delete	10005	2022-04-05	2022-04-10	903	104
	€ Edit	≩ Сору	Delete	10006	2022-03-05	2022-03-12	905	107
	€ Edit	≩ • Сору	Delete	10007	2022-05-15	2022-05-17	902	113
	€ Edit	≩ Copy	Delete	10008	2022-06-05	2022-06-07	902	112
	€ Edit	≩ € Copy	Delete	10009	2022-07-10	2022-07-11	906	105
	€ Edit	≩ € Copy	Delete	10010	2022-07-15	2022-07-17	904	106
	€ Edit	≩ € Copy	Delete	10011	2022-08-21	2022-08-22	905	114

Products Table

#	Name	Туре	Collation	Attributes	Null	Default	Comments	Extra	Action		
1	name	varchar(255)	utf8mb4_general_ci		No	None			€ Change	Orop	More
2	id 🔑	int(11)			Nο	None		AUTO_INCREMENT	€ Change	O Drop	More
3	type	varchar(255)	utf8mb4_general_ci		Nο	None			⊘ Change	Drop	More
4	companyName	varchar(255)	utf8mb4_general_ci		Nο	None			⊘ Change	O Drop	More
5	bar_code 🔎	int(11)			No	None			€ Change	Orop	More
6	price	varchar(255)	utf8mb4_general_ci		No	None			<i>⊘</i> Change	Orop	More

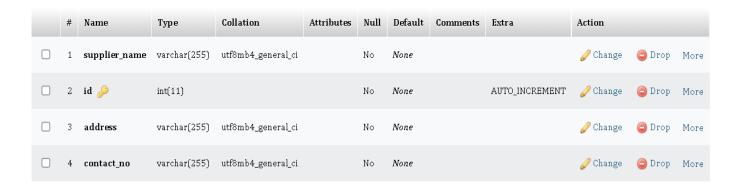
⊢٦	_		\triangledown	name	id	type	companyName	bar_code	price
	🥜 Edit	≩ € Сору	Delete	7up(600ml)	100	Beverage	PepsiCo	1234	35.00
	🧷 Edit	≩ € Сору	Delete	7up(1.25ltr)	101	Beverage	PepsiCo	1235	60.00
	🥒 Edit	≩ € Сору	Delete	7up(2.25ltr)	102	Beverage	PepsiCo	1236	110.00
	🧷 Edit	} € Copy	Delete	Mountain Dew (600ml)	103	Beverage	PepsiCo	1237	35.00
	🥜 Edit	} € Copy	Delete	Speed (250ml)	104	Beverage	Akij Food and Beverage Ltd (AFBL)	1238	35.00
	🥜 Edit	} € Copy	Delete	Rupchanda(2 ltr)	105	Soyabean Oil	Indian Adani Wilmar Ltd	4321	286.00
	🥒 Edit	≩ € Сору	Delete	Fresh(5 ltr)	106	Soyabean Oil	Edible Oil	4322	728.00
	🧷 Edit	} € Copy	Delete	Chashi Aromatic Chinigura Rice(1 kg)	107	Rice	Square	5431	130.00
	🧷 Edit	≩ € Copy	Delete	Chashi Aromatic Chinigura Rice(5 kg)	108	Rice	Square	5432	630.00
	🧷 Edit	} € Copy	Delete	Aarong Dairy(1 ltr)	109	Dairy Milk	Arong	6541	75.00
	🥜 Edit	} € Copy	Delete	Aarong Dairy(500 ml)	110	Dairy Milk	Arong	6542	40.00
	🧷 Edit	} € Copy	Delete	Gold Coffee	111	Coffee	ACI Ltd	2581	410
	<i></i> € Edit	≩ • Сору	Delete	Mustard Oil (250 ml)	112	Oil	ACI Ltd	2418	75
	<i>⊘</i> Edit	≩ € Сору	Delete	ACI Pure Najirshail Rice (10 kg)	113	Rice	ACI Ltd	4758	875
	<i>⊘</i> Edit	≩ € Сору	Delete	CORONA BEER 330ml	114	Drinks	AB InBev	2356	550
	<i>⊘</i> Edit	≩ € Сору	O Delete	BREAD	115	Braed	Bosundhara	1406	50

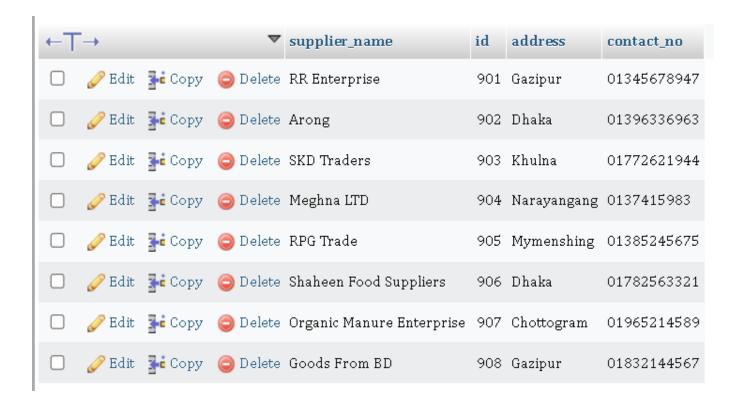
Receipts List Table



←Ţ			\triangledown	transaction_no	product_name	quantity	cashier_name	total_amount	time_	product_id	customer_id
	🥜 Edit	≩ Сору	Delete	1	7up	1.00	Toma	35.00	2022-04-19 00:05:40	100	107
	€ Edit	≩ Сору	Delete	2	Rupchanda	1.00	Toma	286.00	2022-04-19 00:47:02	105	107
	€ Edit	≩ Сору	a Delete	3	Chashi Aromatic Chinigura Rice	1.00	Toma	130.00	2022-04-19 00:47:02	107	107
	€ Edit	≩ Сору	Delete	4	Chashi Aromatic Chinigura Rice	1.00	Toma	130.00	2022-04-19 00:49:07	107	107
	€ Edit	≩ Сору	a Delete	5	Chashi Aromatic Chinigura Rice	1.00	Toma	630.00	2022-04-19 00:50:05	108	115
	<i>⊘</i> Edit	≩ Сору) Delete	6	Speed	1.00	Toma	25.00	2022-04-19 00:51:30	104	111
	€ Edit	≩ Сору	Delete	7	Speed	4.00	Toma	100.00	2022-04-19 00:52:45	104	109
	<i>⊘</i> Edit	≩ Сору) Delete	8	Fresh(5ltr)	2.00	Toma	1450	2022-04-19 20:29:15	106	111
	<i>⊘</i> Edit	≩ € Сору	a Delete	9	Aarong Dairy(1ltr)	2.00	Toma	150	2022-04-19 20:29:15	109	115
	€ Edit	≩ Сору	Delete	10	Gold Coffee	1.00	Toma	410	2022-09-02 19:50:59	111	120
	€ Edit	≩ Сору	a Delete	11	CORONA BEER	6.00	Toma	3300	2022-09-02 19:50:59	114	116
	€ Edit	≩ € Сору) Delete	12	ACI Pure Najirshail Rice (10 kg)	1.00	Toma	875	2022-09-02 19:50:59	113	117

Suppliers Table





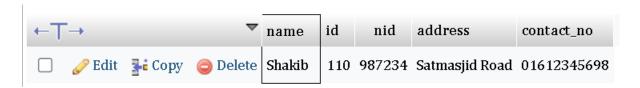
4.3 Queries & Results

⇒ Search a name from a table:

SELECT name, id, nid, address, contact_no

FROM customers

WHERE name LIKE '%Shakib%';



⇒ Find minimum, average & maximum salary from employee table:

SELECT MAX(salary) AS Maximum, AVG(salary) AS Average, MIN(salary) AS Minimum FROM employees;

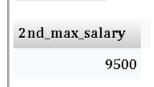


\Rightarrow Find the 2nd maximum salary from employee:

SELECT MAX(salary)AS 2nd_max_salary

FROM employees

WHERE salary < (SELECT MAX(salary) FROM employees);



\Rightarrow Find the 3rd or nth maximum salary from employee:

SELECT name, salary, id, nid, designation

FROM employees ORDER BY salary DESC LIMIT 3,1;



⇒ For total sale:

SELECT SUM(total_amount) AS total_sell

FROM receipt;



⇒ Find products of required quantity and their total amount of money:

SELECT product_name,COUNT(quantity) AS product_,SUM(total_amount) from receipt GROUP BY product_name;

product_name	product_	SUM(total_amount)
7up	1	35
Aarong Dairy(1ltr)	1	150
ACI Pure Najirshail Rice (10 kg)	1	875
Chashi Aromatic Chinigura Rice	3	890
CORONA BEER	1	3300
Fresh(5ltr)	1	1450
Gold Coffee	1	410
Rupchanda	1	286
Speed	2	125

\Rightarrow Display product has been ordered from which supplier:

SELECT order_id, suplier_id, delivery_date

FROM order_list

INNER JOIN supplier

ON order_list.suplier_id = supplier.id;

order_id	sublier id	delivery_date
10001	-	9 –
10001	904	2022-02-05
10002	901	2022-03-10
10003	901	2022-03-10
10004	901	2022-03-10
10005	903	2022-04-10
10006	905	2022-03-12
10007	902	2022-05-17
10008	902	2022-06-07
10009	906	2022-07-11
10010	904	2022-07-17
10011	905	2022-08-22

⇒ Using UNION ALL Syntax

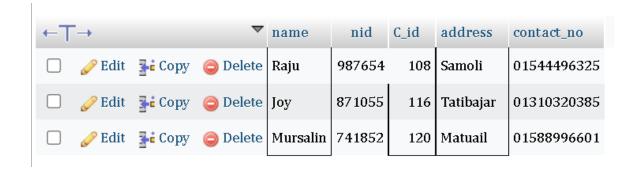
SELECT product_id, order_id, order_date FROM order_list UNION ALL

SELECT id, name, companyName FROM products;

product_id	order_id	order_date
105	10001	2022-02-01
100	10002	2022-03-05
101	10003	2022-03-05
102	10004	2022-03-05
104	10005	2022-04-05
107	10006	2022-03-05
113	10007	2022-05-15
112	10008	2022-06-05
105	10009	2022-07-10
106	10010	2022-07-15
114	10011	2022-08-21
100	7up(600ml)	PepsiCo
101	7up(1.25ltr)	PepsiCo
102	7up(2.25ltr)	PepsiCo
103	Mountain Dew (600ml)	PepsiCo
104	Speed (250ml)	Akij Food and Beverage Ltd (AFBL)
105	Rupchanda(2 ltr)	Indian Adani Wilmar Ltd
106	Fresh(5ltr)	Edible Oil
107	Chashi Aromatic Chinigura Rice(1 kg)	Square
108	Chashi Aromatic Chinigura Rice(5 kg)	Square
109	Aarong Dairy(1 ltr)	Arong
110	Aarong Dairy(500 ml)	Arong
111	Gold Coffee	ACI Ltd
112	Mustard Oil (250 ml)	ACI Ltd
113	ACI Pure Najirshail Rice (10 kg)	ACI Ltd

⇒ Using OR syntax:

SELECT name, nid, id AS C_id , address, contact_no FROM customers
WHERE name = 'Raju' OR id = 116 OR address = 'Matuail';



⇒ Using Order by keyword

SELECT*

FROM employees

ORDER BY salary ASC;



⇒ Display the employee name who have salary greater than or equal 7500

SELECT *
FROM employees
WHERE id IN (SELECT ID
FROM employees
WHERE SALARY >= 7500);



⇒ Display all information who is Sales Executive

SELECT name, nid, salary, contact_no
FROM employees
WHERE designation IN
(SELECT designation from employees WHERE designation = 'Sales
Executive') LIMIT 5



Chapter 5

5.1 Conclusion

This type of software will help the authorities to keep track of their every processesstarting from receiving goods to distribution and sales. And also makes the process of maintaining easier by replacing the manual system. So, this type of software willbe helped full for growing the business faster.

5.2 Particle Implementation and Future Scope

Now a days this type of software often used in many departmental stores as well assuper shops. If we add some functionalities related to hardware likes rearranging the products, caring the loads and some more advance functionalities that will be more covenant to the user.

5.3 References:

- I. https://www.w3schools.com/mysql
- II. https://www.javatpoint.com/sql-tutorial
- III. Lab Manuals Course Teacher