#### SALES MANAGEMENT SYSTEM

#### DATABASE PROJECT REPORT

#### **SUBMITTED BY**

Name: DEEKSHA K USN:1MS21AD019

Name: M NANDITHA PRABHU USN:1MS21AD029

Name: PREETHI V J USN:1MS21AD038

Name: SRI POORVA DEVI E R USN:1MS21AD051

As part of the Course Database Systems-AD32

#### **SUPERVISED BY**

Faculty

VINAY T R
ASSISTANT PROFESSOR
DEPARTMENT OF AI and DS



# DEPARTMENT OF ARTIFICIAL INTELLIGENCE AND DATA SCIENCE RAMAIAH INSTITUTE OF TECHNOLOGY

NOV 2022 – FEB 2023



# Department of Artificial Intelligence and Data Science Ramaiah Institute of Technology (Autonomous Institute, Affiliated to VTU)

#### Bangalore

#### **CERTIFICATE**

This is to certify that **DEEKSHA.K:**(1MS21AD019), M NANDITHA PRABHU:(1MS21AD029), PREETHI.V.J:(1MS21AD038), POORVA:(1MS21AD051) have completed the SALES MANAGEMENT SYSTEM PROJECT as part of Database Project. We declare that the entire content embodied in this B.E. 3<sup>rd</sup> Semester report contents are not plagiarized.

#### Submitted by:

Name: DEEKSHA K USN:1MS21AD019

Name: M NANDITHA P USN:1MS21AD029

Name: PREETHI V J USN:1MS21AD038

Name: SRIPOORVA E R USN:1MS21AD051

Guided by

Vinay T R

(Dept of AI&DS, RIT)



# Department of Artificial Intelligence and Data Science

# Ramaiah Institute of Technology (Autonomous Institute, Affiliated to VTU) Bangalore – 54

# **Evaluation Sheet**

Sl. No	USN	Name	Research Content understanding and Coding (10)	Demo & Report submission (10)	Total Marks
					(20)

# Evaluated By:

(Vinay T R) Assistant Professor AI&DS, RIT

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#### 1. CONTENT'S ABSTRACT

The purpose of the Sales Management System is to automate the existing manual system with the help of computerized equipment and full-fledged computer software, fulfilling their requirements so that their valuable data can be stored for a longer period with easy access and manipulation of the same.

Sales Management System, as described above, can lead to an error-free, secure, reliable, and fast management system. It can assist the user to concentrate on their other activities rather than concentrate on record keeping. Thus, it will help organizations better utilization of resources. The organization can maintain computerized records without redundant entries. That means that one need not be distracted by information that is not relevant, while being able to reach the information.

This project is about how to effectively retrieve the sales history of the customer. It was carried out to find how customers and salespersons can access the purchase history without any difficulties.

#### 2. INTRODUCTION

The "Sales Management System" is based on the sales transaction of items in a supermarket. The salesperson will enter the details of the customer and the product while creating the invoice. Invoice ID will be generated at the time of billing. This Invoice ID is unique and will be the most helpful attribute which can in the future be used to retrieve all the other details of the customer or the item purchased in case of any issues or clarification. This will make the sales very transparent without any ambiguity or confusion about the purchase. This history of purchase will allow the company to keep track of all the previous employees and can generate a report according to the need. This can also be used by the customers to check their purchase history in that particular company.

#### 3. BACKGROUND, MOTIVATION AND SCOPE

#### 3.1 BACKGROUND

Sales encounter so many problems because of the current system they are using which is the manual way of storing records and doing calculations. They use books to store all records. This project is intended to solve the problem that is encountered by the current system of sales which is a manual way of entering data (using a calculator).

This project is intended to build a suitable system for storing all the records by designing a database for a new system. The new system will create a user interface that will allow users to enter and retrieve the data in and from the database. All the records about sales and purchases will also be stored in the database for future use.

### **3.2 MOTIVATION**

Among many problems associated with the time, lack of training for the employees, lack of enough facilities like computers that can respond to different queries and inbuilt software to support the DB to and cost and the possible guidelines that can be provided to improve management of the sales.

This survey research design can be adopted by many organizations to modernize the method of how data from day-to-day sales can be used to produce weekly reports for the manager. If we use this method, it will bring about a fabulous outcome.

#### 3.3 SCOPE OF THE PROJECT

- It will focus on storing items in the database.
- It will help in retrieving data of any customer who purchased an item in any of the branches of the supermarket.
- It also focuses on creating a user interface that will allow users to enter primary data like Invoice ID which will be given while generating the invoice and fetching all the other data.
- It reduces physical storage since most of the data will be kept intact in the database.
- It may help collect perfect management in detail. In a very short time, the collection will be obvious, simple, and sensible.
- It will satisfy the user's requirement.

## 4. METHODOLOGY

Database name: `supermarket`.

#### **Entities:**

- sales
- customer
- branch
- payment gateway
- product line
- customer type

Among the tables mentioned above, sales and customer tables are major tables that consist of 1000 rows. Other tables are referencing tables from the sales table which contains additional information.

#### Attributes:

- sales
  - Invoice\_id
  - > Branch
  - ➤ Product Line
  - ➤ Unit price
  - Quantity
  - > Tax
  - > Total
  - date\_
  - > time\_
  - > Payment
  - > Rating
  - Customer\_id

#### customer

- Customer\_type\_id
- ➤ Gender
- Phone\_no
- Customer\_name

- Customer\_id
- product\_line
  - > class
  - class\_id
- customertype
  - Customer\_type\_id
  - Customer\_type
- branch
  - > branch\_id
  - > branch\_name
- payment\_gateway
  - payment\_type\_id
  - payment\_type

We have created the tables in the database such that all the tables contain primary key.

The primary keys are:

Entity name	Primary key
sales	InvoiceID
customer	Customer_id
branch	branch_id
payment_gateway	payment_type_id
product_line	class_id
customertype	Customer_type_id

# 5. REQUIREMENTS

Server: XAMPPDBMS: MariaDB

> Frontend languages: HTML, CSS

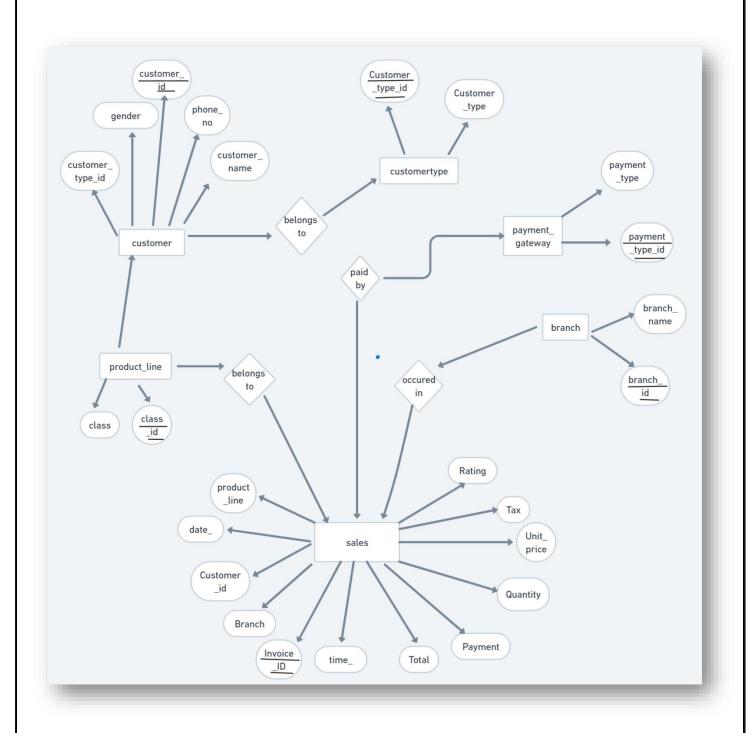
➤ Connecting language (Backend language): PHP

➤ Browser: Brave

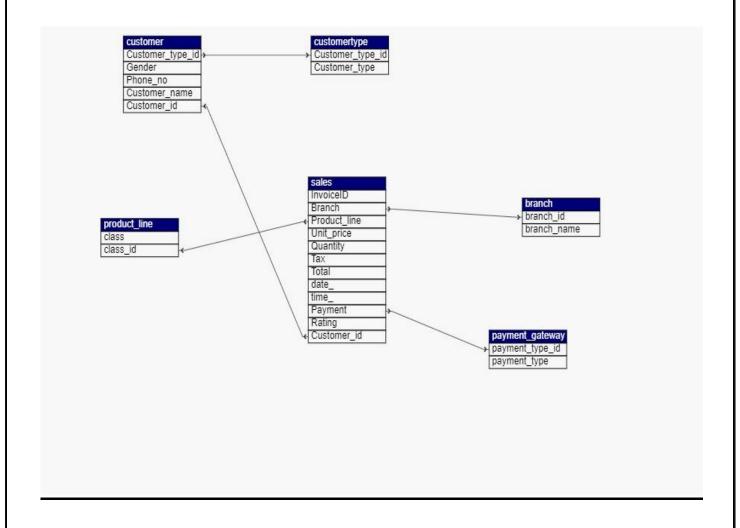
Designing tool: Whimsical
 Dataset source: Kaggle
 Code editor: VS Code

> Command line interface: Command Prompt

# 6. E-R DIAGRAM



# 7. RELATIONAL DATABASE DESIGN



#### 8. <u>DATABASE NORMALISATION</u>

Database normalization is a technique that helps design the schema of the database in an optimal way. The core idea of database normalization is to divide the tables into smaller subtables and store pointers to data rather than replicating it.

#### First Normal Form (1NF)

- A relation will be 1NF if it contains an atomic value.
- It states that an attribute of a table must hold only single-value.
- First normal form disallows the multi-valued attribute, composite attribute, and their combinations.

#### **Second Normal Form (2NF)**

- A relation is in 2NF, it means it is already in 1NF.
- In the second normal form, all non-key attributes are fully functional dependent on the primary key

#### **Third Normal Form(3NF)**

- A relation will be in 3NF if it is in 2NF and not contain any transitive partial dependency.
- 3NF is used to reduce the data duplication. It is also used to achieve the data integrity.
- If there is no transitive dependency for non-prime attributes, then the relation must be in third normal form.

A relation is in third normal form if it holds at least one of the following conditions for every non-trivial function dependency  $X \rightarrow Y$ .

- 1. X is a super key.
- 2. Y is a prime attribute, i.e., each element of Y is part of some candidate key.

#### **Boyce Codd normal form (BCNF)**

- BCNF is the advanced version of 3NF. It is stricter than 3NF.
- A table is in BCNF if every functional dependency  $X \rightarrow Y$ , X is the super key of the table.
- For BCNF, the table should be in 3NF, and for every FD, LHS is super key.

Tables in the database are designed to use the third normal form(3NF). As we know that to use the third normal form our tables must satisfy the requirement of the first normal form(1NF) and the second normal form (2NF). Most of the tables in the database have been designed to keep optimization in mind. We use normalization to remove updates, delete and insert anomalies.

# 9. WEB USER INTERFACE

# **Entering value:**

#### **D B SUPERMARKET PURCHASE HISTORY**

INVOICE ID: 307-83-5164

SUBMIT

Invoice ID Branch name Date of Purchase Time of billing Customer name Product Category Rate Quantity Purchased Taxes Total Payable amount Payment type Rating

#### **Result:**

#### **D B SUPERMARKET PURCHASE HISTORY**

# 10.SOURCE CODE

```
<!DOCTYPE html>
<html>
<head>
  <title>Sales History</title>
  <style>
    .in {
       font-size: 25px;
       color: black;
    table {
       font-family: arial, sans-serif;
       border-collapse: collapse;
       width: 100%;
    }
    .ti {
       font-size: 40px;
       font-weight: bold;
       color: #5f37a3;
       text-shadow: 2px 2px 5px #2ebebc;
    }
    td,
```

```
th {
           border: 1px solid #dddddd;
           text-align: left;
           padding: 8px;
        }
        tr:nth-child(even) {
           background-color: white;
        }
      </style>
    </head>
    <body>
      <h1 class="ti" class="bi" align="center">D B SUPERMARKET PURCHASE
HISTORY</h1>
      <form action="" method="post">
        <div class="group" align="center">
           <label for="InvoiceId" class="in">INVOICE ID:</label>
           <input type="text" class="control" id="InvoiceId" name="InvoiceId">
        </div>
        <div></div>
        <br>
        <div class="group" id="btn" align="center">
           <input type="submit" name="submit" value="SUBMIT">
        </div>
        <br>
```

```
<div></div>
     <div></div>
     <thead>
         Invoice ID
         Branch name
         Date of Purchase
         Time of billing
         Customer name
         Product Category
         Rate
         Quantity Purchased
         Taxes
         Total Payable amount
         Payment type
         Rating
       </thead>
       <?php
       $con = new mysqli("localhost", "root", "", "supermarket");
       if (isset($_POST['submit'])) {
         $id = $_POST['InvoiceId'];
         $result = $con->query("SELECT InvoiceID, branch_name, class, Unit_price,
Quantity, Tax, Total, date_, time_, payment_type, Rating,
   Customer_name FROM `sales`, `branch`, `product_line`, `payment_gateway`,
`customer` WHERE branch_id = Branch AND
```

</form>

```
class_id = Product_line AND Payment = payment_type_id AND
customer_id=sales.Customer_id AND InvoiceID = '$id';");
          foreach ($result as $value) {
```

```
?>
       <?php echo $value['InvoiceID']; ?>
         <?php echo $value['branch_name']; ?>
         <?php echo $value['date_']; ?>
         <?php echo $value['time_']; ?>
         <?php echo $value['Customer_name']; ?>
         <?php echo $value['class']; ?>
         <?php echo $value['Unit_price']; ?>
         <?php echo $value['Quantity']; ?>
         <?php echo $value['Tax']; ?>
         <?php echo $value['Total']; ?>
         <?php echo $value['payment_type']; ?>
         <?php echo $value['Rating']; ?>
       <?php
     }
</body>
</html>
```

?>

#### **QUERIES EXECUTED IN CLI:**

-> WHERE G															
ustomer_id	InvoiceID	Branch	Product_line	Unit_price	Quantity			Date	Time	Payment	Rating	Customer_type_id	Gender	Phone_no	Customer_name
12	101-81-4070		A1	62.82	2			13-03-2019		1	4.9	m			Roland Santos
u8	109-28-2512	В	F6	97.61	6	29.2830	614.9430	01-07-2019	15:01	1	9.9	m		6538658424	Javier Flores
u9	109-86-4363	B	D4	60.08	7	21.0280	441.5880	2-14-2019		3	4.5	m		8616713176	Emilia Koch
u10	110-05-6330	C	E5	39.43	6	11.8290	248.4090	3-25-2019	20:18	3	9.4	n		7036135751	Salvador Sawyer
u12	114-35-5271	B	B2	57.91	8	23.1640	486.4440	02-07-2019	15:06	2	8.1	n		6436639729	Duncan Bridges
	115-38-7388	1 c	F6	10.18	8	4.0720	85.5120	3-30-2019		3	9.5	m		7045531089	Elora Pacheco
u14	115-99-4379	B	F6	54.73	7	19.1555	402.2655	3-14-2019	19:02	3	8.5	m		9919173890	Erik Munoz
u15	118-62-1812		C3	78.38	4	15.6760	329.1960	3-24-2019	17:56	2	7.9	m		7903032856	Kehlani Malone
	120-54-2248		E5	28.86		7.2150	151.5150	1-22-2019	18:08	3	8.0	n		6372653455	Milena George
			B2			23.0940	484.9740	3-14-2019		2	5.6			7898950938	Mark Petersen
u20	123-35-4896		D4	46.66		20.9970	440.9370	2-17-2019		1				7367890877	Tyson Byrd
u21	124-31-1458	I A	B2	79.59	3	11.9385	250.7085	01-08-2019	14:30	2	6.6	m		7492171020	Giselle Bean
u22	125-45-2293	A	F6	99.10	6	29.7300	624.3300	1-19-2019	13:11	2	4.2	n		8942125883	Mccoy Sierra
u23	126-54-1082	A	C3	21.54	9	9.6930	203.5530	01-07-2019	11:44	3	8.8	m I		6162516670	Marceline Vaughn
u28	131-15-8856	C	E5	72.52	8	29.0080	609.1680	3-30-2019	19:26	3	4.0	m		9953332011	Denver Pham
u29	131-70-8179	A	A1	92.09	] 3	13.8135	290.0835	2-17-2019	16:27	2	4.2	m		7267410726	Raelyn Camacho
u31	132-32-9879	B	B2	93.96	4	18.7920	394.6320	03-09-2019	18:00	2	9.5	m		7211517644	Briar Guerrero
u34	134-54-4720	B	B2	42.42	8	16.9680	356.3280		13:58	1		n		9568248952	Duncan Parks
Cu36	135-13-8269		E5	78.88	2	7.8880		1-26-2019	16:04	2	9.1	m		8753398114	Conner Lawrence
u37	135-84-8019	I A	F6	77.93	9	35.0685	736.4385	2-27-2019	16:10	1 1	7.6	[ n		6075993564	Lauren Jennings
u38	136-08-6195	I A	C3	69.96	8	27.9840	587.6640	2-15-2019	17:01	3	6.4			9880033685	Corbin Parrish
Cu40		C	F6	12.19	8	4.8760	102.3960		12:47	1	6.8	n		6491401238	Brody Velez
Cu41	138-17-5109	A	[ C3	89.21	9	40.1445	843.0345	1-15-2019	15:42	3		m		9235300505	Megan Mahoney
u43	139-32-4183	I A	D4	97.48	9	43.8660	921.1860	3-14-2019		1	7.4	m		8388848798	Ruth Roman
u44	139-52-2867	C	F6	22.51	7	7.8785	165.4485	2-13-2019	10:50	3	4.8	n		8376770591	Kian Hawkins
Cu48	145-94-9061	B	E5	88.36	5	22.0900	463.8900	1-25-2019	19:48	2	9.6			8469906383	Stetson Valencia
Cu51	148-82-2527		C3			6.0600	127.2600	03-05-2019	13:44	3	8.4	m		7076028566	Juniper Hunt
u52	149-14-0304		A1	28.50		11.4000	239.4000	02-06-2019	14:24	2	6.6	m		6745178031	Jesus Atkins
u58	151-27-8496		B2	56.13		11.2260	235.7460	1-19-2019		1	8.6			9545994891	Logan Henderson
	151-33-7434	В	ES .	67.77		3.3885	71.1585	02-04-2019	20:43	3				7831100263	Maria McCormick
u60	152-03-4217		C3	11.28	9	5.0760	106.5960		11:55	3	4.3	n		8651189801	Jasiah Garrison
u63	153-58-4872		E5	74.89		14.9780	314.5380	03-01-2019		1 1	4.2	m I		7858215304	Caroline Norton
u66	155-45-3814		B2	88.55		35.4200	743.8200	3-19-2019		1	4.7	m		8274020422	Landon Jimenez
u67	156-20-0370		B2	25.45	1 1	1.2725	26.7225	03-10-2019	18:10	3		n		9617457720	Adeline Hicks
u68	156-95-3964		E5	55.39		11.0780	232.6380	3-25-2019		1	8.0			6356872945	Maddox Daniels
u70	160-22-2687		A1.	95.95		23.9875	503.7375	1-23-2019		1 1	8.8	m		7629961043	Angel Cole
u71	162-48-8011	I A	E5	44.59	5	11.1475	234.0975	02-10-2019		2	8.5	m		6979152038	Margaret Herrera
	169-52-4504		B2	15.69		2.3535	49.4235	3-14-2019		] 3	5.8			9843700638	Rosa Bryan
Cu76	172-42-8274		B2	38.27		3.8270	80.3670	03-02-2019		3	5.8			6421585257	Jaxtyn Good
Cu77	173-50-1108		D4	20.18		4.0360	84.7560	2-13-2019		] 3	5.0	m		7729667346	Nathalia Goodwin
Eu79	173-82-9529	В	F6	37.95	10	18.9750	398.4750	1-26-2019	14:51	1 2 1	9.7	n I	F	7109838113	Haisley Bradford

Cu924	842-40-8179   B	E5	77.20	10	38.6000	910 6000	02-11-2019	10:38	3	5.6	-	I E	7148662296	Collin Rodriguez
Cu925	843-01-4703   B	C3	35.38	9				19:50	3 1	9.6		15	7104474971	
Cu928	845-94-6841 C	E5	72.88		32.7960	688.7160		19:38	2	4.0		1 6	9306370670	Dakota Ingram
Cu929	846-10-0341 A	F6	42.57	7	14.8995	312.8895		11:51	2	6.8		l F	7766833502	
Cu929	847-38-7188 B	F0   E5	96.68	3	14.8995		1-26-2019	19:56	1	6.4		1 -	6219615958	Tru Zhang
Cu931	848-07-1692   B	A1	57.22	2	5.7220		01-12-2019	17:13	1	8.3		1 6	8364706946	Sarai Knapp
Cu933	848-42-2560 A	F6	81.91	2	8.1910		03-05-2019	17:13	2	7.8		16	7710100842	Hadlee Boyer
Cu935	848-42-2500   A   848-95-6252   C	C3	86.27	1	4.3135		2-20-2019	13:24	1	7.8		1 -	9011409853	Andrea Haley
Cu936	849-09-3807 A	F6	88.34	7	30.9190		2-18-2019	13:24	2	6.6	l m	1 6	9765204164	Leif Nash
Cu936	849-09-3807   A   850-41-9669   A	B2	75.06	9	33.7770		3-19-2019	13:28	1	6.2		i E	8046865525	
Cu937	850-41-9009   A   851-98-3555   B	A1	82.88	5	20.7200		3-19-2019	14:08	3	6.6		1.5	9844830338	
Cu940	852-62-7105   B	F6	83.25	10	41.6250		01-12-2019	11:25	3	4.4		1 6	7140303534	
Cu940		C3			1.2645		3-23-2019					1 -	9801022122	
	856-22-8149 A	F6	25.29	1			3-23-2019	10:13		6.1		i E	6111322019	
Cu945	857-16-3520 A		71.46	7	25.0110			16:06		6.3		1 -		
Cu947	859-71-0933   C	D4	15.49	2	1.5490		1-16-2019	15:10				i E	7449164958 6365036611	Zariyah Bullock
Cu949	860-73-6466 A		39.47	2	3.9470		03-02-2019	16:16	3	5.0		1.5		
Cu950 Cu952	860-79-0874 C	F6   E5	99.30	10	49.6500		2-15-2019	14:53	3	6.6 7.7		i E	8545317330	Jared Andrade
	862-17-9201   B		84.05	6	25.2150		1-29-2019	10:48					6864850527	Jaime Harmon
Cu953 Cu954	862-29-5914 C	04	22.38	1	1.1190		1-30-2019	17:08		8.6			8599673230 8991280656	Maren Campos   Gideon Marks
Cu954	862-59-8517   C	E5	90.24	6			1-27-2019	11:17		6.2		ļ F		
	864-24-7918 A	D4	24.49		12.2450		2-22-2019	15:15		8.1			8557146540	Monica Lynch
Cu958	866-05-7563 B	B2	81.40	3	12.2100		02-09-2019	19:43		4.8		ļ Ē	6381434158	Ariel Vance
Cu959	866-70-2814 B	B2	52.79	10	26.3950		2-25-2019	11:58	1 2	10.0		F	6051425681	Maxine Webb
Cu961	867-47-1948   C	ļ G	15.80	10	7.9000		01-09-2019	12:07		7.8			9444892227	
Cu963	868-52-7573   B	E5	99.69	5	24.9225		1-14-2019	12:09		9.9		ļ. E	7401096875	
Cu966	870-54-3162 A	D4	32.25	5	8.0625		1-27-2019	13:26		9.0		ļ F	7076775334	
Cu967	870-72-4431   C	A1	99.19	6	29.7570		1-21-2019	14:42		5.5			6441173342	
Cu968	870-76-1733 A	E5	14.23	5	3.5575		02-01-2019	10:08	3	4.4		I F	6165576466	Jordan Michael
Cu969	871-39-9221 C	B2	12.45	6	3.7350		02-09-2019	13:11		4.1		1 6		
Cu972	873-51-0671 A	D4	21.98	7	7.6930		01-10-2019	16:42		5.1			8583509728	
Cu973	873-95-4984 B	A1	76.90	7 !	26.9150		2-15-2019	20:21	2	7.7		ļ E	7421573557	Jamie Stanton
Cu977	878-30-2331 C	D4	54.55	10	27.2750		03-02-2019	11:22		7.1		ļ F		Anna Rios
Cu978	880-35-0356   A	D4	75.20	3			02-05-2019	11:51		4.8	m		6786071526	Israel Figueroa
Cu980	881-41-7302 C	F6	64,99	1	3.2495 1.4390		1-26-2019	10:06	3	4.5		I F	8147731793	
Cu982	883-17-4236 C	D4	14.39	2	36.7350		03-02-2019	19:44		7.2		1 -	6267196374	
Cu984	884-80-6021   A	B2	73.47	10			3-23-2019	13:14		9.5		1 -	7730174340	Anthony Kaur
Cu985	885-17-6250   A	A1	79.74	1	3.9870		03-06-2019	10:36	1 1	7.3	n		9024743309	Holland McDowell
Cu987	886-18-2897   A	E5	56.56	5	14.1400		3-22-2019	19:06	3	4.5		l F	6248203480	Mia Ray
Cu988	886-54-6089   A	C3	11.43	6	3.4290		1-15-2019	17:24		7.7		I F	9571456509	Arlo Glover
Cu990	887-42-0517   C	04	83.14	7	29.0990		01-10-2019	10:31	3	6.6		1:	9069551199	Zahir Barr
Cu992	889-04-9723   B	E5	89.14	4	17.8280		01-07-2019	12:20	3	7.8		1 -	6484101083	Caspian Berger
Cu993	891-01-7034   B	B2	74.71	6	22.4130		01-01-2019	19:07		6.7			9238324134	
Cu994	891-58-8335   B	D4	29.61	7	10.3635		03-11-2019	15:53		6.5	m	ļ <u>E</u>	6700593937	Blaine Hart
Cu995	892-05-6689 A	C3	28.32	5	7.0800		03-11-2019	13:28		6.2		ļ Ē	9751580001	Gemma Olsen
														Skyler Wall
														Jayda Chandler
Cu996 Cu997	894-41-5205   C   895-03-6665   B +	E5   F6	43.18   36.51	8 9	17.2720 16.4295	362.7120 345.0195	1-19-2019 2-16-2019	19:39     10:52		8.3 4.2	n   n		6893287 7398879	930

```
MariaDB [supermarket]> SELECT class, Date
   -> FROM sales, product_line
   -> WHERE Product_line=class_id AND Date LIKE '%3%';
                        Date
 class
 Health and beauty
                        13-03-2019
 Health and beauty
                        03-05-2019
 Health and beauty
                        03-09-2019
                        1-23-2019
 Health and beauty
 Health and beauty
                         03-12-2019
 Health and beauty
                        03-09-2019
 Health and beauty
                        1-23-2019
 Health and beauty
                        3-29-2019
 Health and beauty
                         2-23-2019
 Health and beauty
                         03-01-2019
 Health and beauty
                         03-04-2019
 Health and beauty
                         3-27-2019
 Health and beauty
                         01-03-2019
 Health and beauty
                         03-04-2019
 Health and beauty
                          3-29-2019
 Health and beauty
                         03-03-2019
```

Command Prompt - mys	sql -u root -p	
Fashion	accessories	03-09-2019
Fashion	accessories	3-13-2019
Fashion	accessories	3-17-2019
Fashion	accessories	02-03-2019
Fashion	accessories	3-13-2019
Fashion	accessories	3-27-2019
Fashion	accessories	3-24-2019
Fashion	accessories	1-31-2019
Fashion	accessories	03-11-2019
Fashion	accessories	03-05-2019
Fashion	accessories	03-04-2019
Fashion	accessories	3-26-2019
Fashion	accessories	2-13-2019
Fashion	accessories	3-23-2019
Fashion	accessories	3-26-2019
Fashion	accessories	03-07-2019
Fashion	accessories	03-05-2019
Fashion	accessories	3-28-2019
Fashion	accessories	03-06-2019
Fashion	accessories	3-19-2019
+		++
434 rows	in set (0.003 se	ec)

```
MariaDB [supermarket]> SELECT branch_name, Rating
   -> FROM sales, branch
   -> WHERE branch_id = Branch AND Rating>=7.0;
 branch_name | Rating |
                  7.0
 Srirampura
 Srirampura
                  8.5
                  8.4
 Srirampura
 Srirampura
                8.8
                  9.8
 Srirampura
 Srirampura
                 7.0
 Srirampura
                 9.4
 Srirampura
                 7.8
 Srirampura
                  7.6
 Srirampura
                  7.4
                  9.5
 Srirampura
 Srirampura
                  8.0
                  8.8
 Srirampura
 Srirampura
                  8.5
 Srirampura
                  9.9
 Srirampura
                  9.6
```

Yeshwantpur	7.4
Yeshwantpur	7.7
Yeshwantpur	7.6
Yeshwantpur	8.4
Yeshwantpur	8.3
Yeshwantpur	9.4
Yeshwantpur	9.3
Yeshwantpur	9.8
Yeshwantpur	7.0
Yeshwantpur	9.1
Yeshwantpur	8.5
Yeshwantpur	8.7
Yeshwantpur	7.9
Yeshwantpur	7.0
Yeshwantpur	9.2
Yeshwantpur	8.6
Yeshwantpur	7.8
Yeshwantpur	7.1
Yeshwantpur	7.2
Yeshwantpur	8.3

#### 11. CONCLUSION

This project explains the details of the step-wise design of the database, user interface, and overall design of the new system. As has been shown in the previous sections we represented our database schema using E R Diagram. Then came up with a Relational database design, checked and for database normalization. We cross-checked the database design by executing some of the queries in the command line. Later on, we connected our database to the web user interface we made using HTML, and CSS using PHP. We designed the user interface in such a way that the user may be a salesperson or customer can enter the Invoice ID and the DBMS according to PHP will retrieve the corresponding data from the database and display it. This will be useful when we have to check some details about the purchase.

Compared with the old manual work, the system not only reduces the workload but also greatly reduced the occurrence of human error. The system also has the advantage of having a simple operation, convenient query and data storage security, etc. It can gradually improve staff quality and strengthen the management level of sales through the use of the sales management system. The system maintenance is convenient, reliable and has higher security and meet the requirements of practicality.