



# Module Code & Module Title CC4057NI Introduction to Information Systems

## Assessment Weightage & Type 30% Individual Coursework

## Year and Semester 2019-20 Autumn

**Student Name: Himanshu Pandey** 

**Group: N7** 

London Met ID: NP01NT4A190141

College ID: NP01NT4A190131

Assignment Due Date: 28th NOVEMBER 2019

Assignment Submission Date: 20th DECEMBER 2019

I confirm that I understand my coursework needs to be submitted online via Google Classroom under the relevant module page before the deadline in order for my assignment to be accepted and marked. I am fully aware that late submissions will be treated as non-submission and a marks of zero will be awarded.

## CC4057NI

## Introduction to information system

## **Contents**

Introduction	
INFORMATION SYSTEM	7
DATABASES	7
ERD DIAGRAM OF SHOPPING STORE	
RELATIONAL DATABASES	g
RELATIONAL DIAGRAM	10
CREATING TABLES ON DATABASES	11
DATA DICTIONARY	
QUERIES	
CONCLUSION	
BIBLOGRAPHY	35
Bibliography	35
References	35

## Table of contents

.

List of Figures	
Figure 1 Entity relationship diagram	8
Figure 2 Relational diagram	
Figure 3 desc executive	
Figure 4select from executive	
Figure 5desc workers	
Figure 6insert and select from workers	12
Figure 7 create customer	
Figure 8 desc customer	13
Figure 9select from customer	
Figure 10 create orders	
Figure 11 desc order	
Figure 12 select from orders	14
Figure 13create items	15
Figure 14 desc items	
Figure 15insert items	15
Figure 16 select items	16
Figure 17create bill	
Figure 18desc bill	
Figure 19insert bill	
Figure 20select bill	
Figure 21data dictionary of executive	
Figure 22data dictionary workers	20
Figure 24data dictionary customerFigure 25Error!	
Figure 26data dictionary orders	22
Figure 1 Entity relationship diagram	
Figure 2 Relational diagram	1C
Figure 3 desc executive	
Figure 4select from executive	11
Figure 5desc workers	12
Figure 6insert and select from workers	
Figure 7 create customer	
Figure 8 desc customer	
Figure 9select from customer	
Figure 10 create orders	
Figure 11 desc order	
Figure 12 select from orders	
Figure 13create items	
Figure 14 desc items	15
Figure 15insert items	

CC4057NI	Introduction to information system
Figure 16 select items	
Figure 17create bill	
Figure 18desc bill	
Figure 19insert bill	17
Figure 20select bill	17
Figure 21data dictionary of executive	19
Figure 22data dictionary workers	20
Figure 23datadictionary customer	21
Figure 24data dictionary orders	22
Figure 25data dictionary of item column	23
Figure 26data dictionary of bill column	24
Figure 27queries of between	25
Figure 28queries count	26
Figure 29queries distinct	27
Figure 30limit queries	28
Figure 31like queries	29
Figure 32orderby queries	30
Figure 33 join query	31
Figure 34 left join query	32
Figure 35 right join query	32
Figure 36 limit guery	

#### Introduction

For the second assignment of Introduction to information system, we have been given a coursework to create database about an organization or company of our own choice. Following databases contain at least five relation tables with five different values for each table and five different relationship with each other and each relation must identified using a suitable primary key and the relation must contains a suitable attributes. For the attributes it constrained using suitable constraints (ie; unique, not null, auto increment, etc.) and the relation must be interlinked using suitable pairing of foreign keys. Here I have created a database of a shopping store and the shopping store start in a manner from Executive till to the bills. I have also created Entity Relation Diagram (ERD) with some research and interaction with teacher and friends. All together I've made six entities that are involved in this shopping store, they are as below.

- 1. Executive
- 2. Workers
- 3. Customer
- 4. Orders
- 5. Items
- 6. Bills
- 1) Executive: Executive are those management system of an organization or a company and in same manner my assume of executive contains five attributes like as name, phone no, executive id, address and email. In the attributes name store name of executive likewise phone no saves the phone number of executive person to call when required similarly, executive id is the id which helps to identify the executive person and lastly email attributes contains the email address of following executive.
- 2) Workers: Workers are those persons who works under the control of executive of any organization .so in the workers entity there are five attributes they are worker id ,address, name, contact number and email. An attributes workers id of entity workers stores the unique id of a workers which is a primary key and the attributes address stores the workers address likewise, name stores the name of worker in the column ,contact number stores the phone number of workers in the column similarly emails stores the email address of worker so that we can mail the executive when required. Executive id is an attributes of a workers which is a foreign key of the table executive which can identify the executive of shopping store.
- 3) Customer: Normally customer are those peoples of any organization who buys goods or items. So in this entity there are five attributes which are customer id.

- 4) name, address, workers id, contact no and email. The attribute customer id of entity customer stores unique id of customer also called as primary key, the attributes stores address of customer, likewise contact no stores the number of customers, the attributes email stores the email of customer so as to mail the customer when there is any mistake made by workers while sending the goods order by customers. The attributes worker id acts as foreign key of table workers which can identify the workers of the shopping store.
- 5) Orders: Orders are those which has benn ordered by customers to purchase their needy item in the shopping store. This entity contains total five attributes like order id, order code, name, date, quantity. The attributes order id contains the id of ordered items. the attributes order code stores the code of ordered items likewise, name attributes stores the name of goods ordered by customers and date attributes stores the date of ordered item on the date where customers ordered the goods. finally the quantity attributes strores the quantity of ordered item or how many goods items does the customed ordered.
- 6) Items: Items are those sold things which is burrowed or purchased from the orders given by customer in the store. This entity of items consists of five attributes like item name, item price, item id, ,quantity, customer id. The attributes item id is a unique id of a item which is a primary key. And the attributes item name stores name of items, similarly price stores the price of each items likewise, quantity determines the amount of items ordered and the customer id is an foreign key of table customer which can identify the item of shopping store.
- 7) Bills: It can be defined as a receipt or statement of the bill generally which are provided whenever we make any purchase either online or in physical presence of customer. This entity contains five attributes like bill id, price, amount, quantity, customer id. An attributes bill id of entity bill stores unique bill which acts as primary key. The attributes amount stores the amount of purchased items. The attributes quantity stores the quantity of an bill in the bill column. Likewise, price attributes stores price of bill item in the bill column. Customer id is an attribute of a bill which is foreign key of table customer which can identify the bill of shopping store.

#### INFORMATION SYSTEM

Information system is a set of components for collecting, creating, storing, processing the data and distributing useful information that can be used for decision making in an organization. Typically, Information system includes hardware, software and the data itself.

Hardware: It contains all the physical components where we can see and touch. Example; keyboards, iPads, Disk drives etc. Software: It is the set of instructions that tells the hardware what to do.it cannot be touched.

Data: It is defined as the collection of raw information or facts or figure. Data can be anything like phone numbers, address etc.

Some of the types of information system are as follows;

- A).General purpose information system: let's take an example a database management system (DBMS) is a combination of software and data that makes it possible and analyze data. DBMS is typically not designed to work with specific organization or specific type of analysis. Rather, it is a general purpose information system.
- B). Specialized information system: In contrast, there are a number of specialized information system that have been specifically designed to carry out very specific tasks For example; Enterprise resource planning (ERP) is an information system used to integrate all the internal and external information across an entire organization. (zwass, n.d.)

#### DATABASES

Database is a collection of information that is organized so that it can be easily accessed, managed and updated. Most databases use Structured Query Language (SQL) for writing and querying data. Example: SQL server, My SQL etc. Database management system plays vital role to the operation of different organizations because they help to manage an organization in various databases. This system allows users to easily retrieve, update and generally manage data relevant to a business operation. A database can track sales, expences and other financial information. Examples might be a shop's stock inventory or airline booking system. (oracle, n.d.)

## ERD DIAGRAM OF SHOPPING STORE

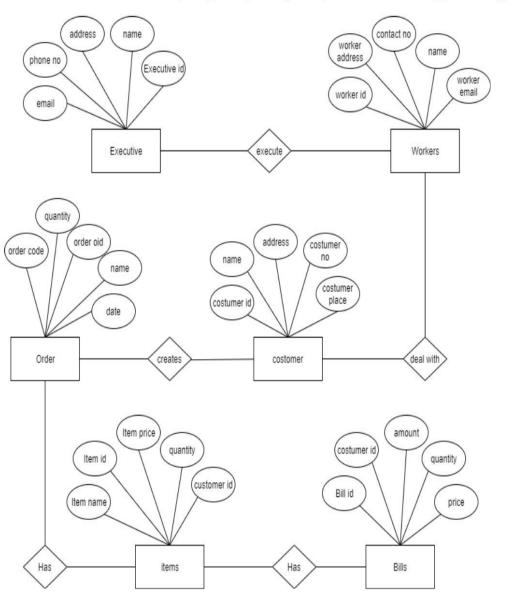


Figure 1 Entity relationship diagram

#### RELATIONAL DATABASES

Relational diagram, it refers to a visual representation of an relational database entity, relational diagram relates the entities and the attributes with in those entity. A relational database (RDB) is a collective set of multiple data sets organized by tables, records and columns. Relational databasess establish a well-defined relationship between database tables. Tables communicate and share information, which facilitates data searchability, organization and reporting. Relational databases organize data in different ways. Each table is known as a relation, which contains one or more data category columns. Each table record (or row) contains a unique data instance defined for a corresponding column category. One or more data or record characteristics relate to one or many records to form functional dependencies. These are classified as follows:

- 1) One-to-One Relation
- 2) One-to-Many Relation
- 3) Many-to-One Relation
- 4) Many-to-Many Relation

#### **DEFINATION**

- One to One: One table record relates to another record in another table.
- One to Many: One table record relates to many records in another table.
- Many to One: More than one table record relates to another table record.
- Many to Many: More than one table record relates to more than one record in another table.

#### Advantages of relational database

- Easy extendability, as new data may be added without modifying existing records. This is also known as scalability.
- New technology performance, power and flexibility with multiple data requirement capabilities.
- Data security, which is critical when data sharing is based on privacy. For example, management may share certain data privileges and access and block employees from other data, such as confidential salary or benefit information. (oracle, jun -10 -2016)

## **RELATIONAL DIAGRAM**

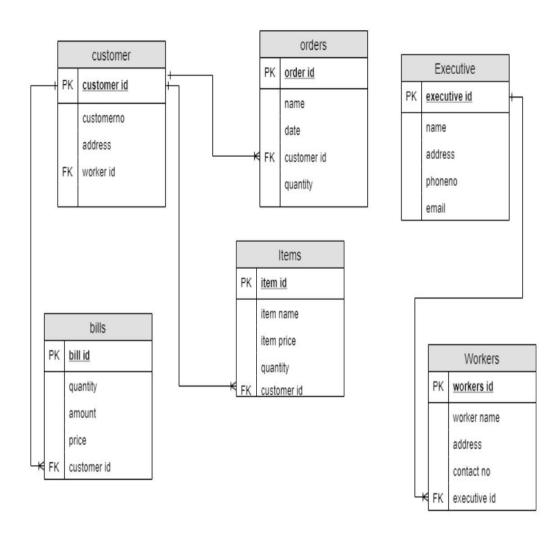


Figure 2 Relational diagram

#### CREATING TABLES ON DATABASES

1) Executive

Creating table of Executive:

(a) Create table Executive(executive id int primary key auto\_increment not null, name varchar(255), address varchar(255), phoneno varchar(255), email varchar(255));

Field	Type	Null	Key	Default	Extra
executive_id	int(11)	NO	PRI	NULL	auto_increment
name	varchar(255)	YES		NULL	
address	varchar(255)	YES		NULL	
phonenunber	varchar(255)	YES		NULL	į .
email	varchar(255)	YES		NULL	

Figure 3 desc executive

Insert into Executive:

For eg: Insert into Executive values(2, "hary", "koteshwor", "7765895", "hary.gmail,com"); Insert into Executive values(3, "jeni", "baneshwor", "9876547", "jenygmail,com");

Select Executive:



Figure 4select from executive

#### 2) Workers:

#### Creating table of workers

Create table Workers(worker\_id int primary key auto\_increment,workername varchar(255),address varchar(255),contactno int, email int, foreign key(executive\_id));

Field	Type	Null	Key	Default	Extra
worker_id	int(11)	NO	PRI	NULL	auto_increment
workername	varchar(255)	YES	j	NULL	<u> </u>
address	varchar(255)	YES	j	NULL	j
contactno	varchar(255)	YES	İ	NULL	j
email	int(11)	YES	İ	NULL	j
executive id	int(11)	YES	MUL	NULL	j .

Figure 5desc workers

#### INSERT AND SELECTING WORKERS

```
MariaDB [mystore]> insert into workers values(1,"ram","koteshwor","98764","ram@gmail.com",2);
Query OK, 1 row affected, 1 warning (0.007 sec)
MariaDB [mystore]> insert into workers values(2,"shyam","kolkata","98364","shyan@gmail.com",3);
Query OK, 1 row affected, 1 warning (0.006 sec)
MariaDB [mystore]> insert into workers values(3,"sanu","sinnamangal","983754","sanu@gmail.com",4);
Query OK, 1 row affected, 1 warning (0.005 sec)
MariaDB [mystore]> insert into workers values(4,"lalluu","pipi1","983724","lallu@gmail.com",5);
Query OK, 1 row affected, 1 warning (0.005 sec)
MariaDB [mystore]> insert into workers values(5,"lali","nepal","983734","lali@gmail.com",6);
Query OK, 1 row affected, 1 warning (0.005 sec)
MariaDB [mystore]> select *from Workers;
                                   | contactno | email | executive_id |
 worker_id | workername | address
         1 | ram
                         koteshwor
                                      98764
                                                       0
                                                                      2
         2
             shyam
                          kolkata
                                        98364
                                                       0
         3 sanu
                          sinnamangal | 983754
                                                       0
             lalluu
                          pipil
                                                       0
                                        983724
         5 | lali
                          nepal
                                        983734
                                                       0
                                                                      6
```

Figure 6insert and select from workers

#### CC4057NI

#### 3) Customer:

#### Creating customer table

MariaDB [mystore]> create table customer(customer\_id int primary key AUTO\_increment,customerno varchar(255),address varchar(255),worker\_id int, foreign key(worker\_id) refer ences Workers(worker\_id)); Query OK, 0 rows affected (0.023 sec)

Figure 7 create customer

#### Desc customer table:

```
MariaDB [mystore]> alter table customer add column name varchar(255);
Query OK, 0 rows affected (0.012 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [mystore]> desc customer;
 Field
             Type
                            | Null | Key | Default | Extra
 customer_id | int(11)
                             NO
                                    PRI
                                         NULL
                                                   auto_increment
 customerno | varchar(255)
                             YES
                                         NULL
              varchar(255)
                             YES
 address
                                          NULL
 worker_id
              int(11)
                             YES
                                    MUL
                                         NULL
                            YES
             varchar(255)
                                         NULL
 name
```

Figure 8 desc customer

#### Selecting customer tables:

	+	from custome +	+	+
customer_id	customerno	address	worker_id	name
110	5	bharatur	3	gita
112	8	bhaktapur	2	rita
113	7	lalitpur	1	sita
310	35	betiur	4	mita
430	835	belauri	5	shreya

Figure 9select from customer

#### 4) Orders:

Creating orders table

```
MariaDB [mystore]> create table orders(order_id int primary key AUTO_increment,name varchar(255),date int,customer_id int,foreign key(customer_id) references customer(customer_id));
Query OK, 0 rows affected (0.029 sec)
```

Figure 10 create orders

#### Desc orders table:

```
MariaDB [mystore]> alter table orders add column quantity int;
Query OK, 0 rows affected (0.013 sec)
Records: 0 Duplicates: 0 Warnings: 0
MariaDB [mystore]> desc orders;
 Field
                             | Null | Key | Default | Extra
              Type
 order id
               int(11)
                              NO
                                     PRI
                                            NULL
                                                      auto increment
 name
               varchar(255)
                              YES
                                            NULL
               int(11)
                               YES
  date
                                            NULL
  customer_id
               int(11)
                               YES
                                     MUL
                                            NULL
  quantity
               int(11)
                               YES
                                           NULL
```

Figure 11 desc order

#### Select from order table:

ariaDB [mys	store]> sele	ect *Tr0 +	om orders; +	
order_id	name	date	customer_id	quantity
3	shoes	1123	110	2
4	fruits	1123	112	3
5	cloths	1153	113	1
7	bookss	1453	310	7
9	utensils	1453	430	4

Figure 12 select from orders

#### 5) Items:

## Creating items table:

MariaDB [mystore]> create table Items(item\_id int primary key AUTO\_increment,itemname varchar(255),itemprice int ,quantity int,customer\_id int,foreign key(customer\_id) references customer(customer\_id));
Query OK, 0 rows affected (0.071 sec)

Figure 13create items

#### Desc items:

Field	Type	Null	Key	Default	Extra
item_id	int(11)	NO	PRI	NULL	auto_increment
itemname	varchar(255)	YES		NULL	Ī
itemprice	int(11)	YES	ĺ	NULL	
quantity	int(11)	YES		NULL	
customer_id	int(11)	YES	MUL	NULL	[

Figure 14 desc items

#### Inserting items values:

```
MariaDB [mystore]> insert into Items values(1,"vans",2000,2,110);
Query OK, 1 row affected (0.006 sec)

MariaDB [mystore]> insert into Items values(2,"apple",500,3,112);
Query OK, 1 row affected (0.005 sec)

MariaDB [mystore]> insert into Items values(3,"shirt",5080,3,113);
Query OK, 1 row affected (0.005 sec)

MariaDB [mystore]> insert into Items values(4,"encyclopedia",50760,1,310);
Query OK, 1 row affected (0.005 sec)

MariaDB [mystore]> insert into Items values(5,"spatulaa",5360,4,430);
Query OK, 1 row affected (0.005 sec)
```

Figure 15insert items

#### CC4057NI

#### Select items table:

item_id	itemname	itemprice	quantity	customer_id
	+	+	+	+
1	vans	2000	2	110
2	apple	500	3	112
3	shirt	5080	3	113
4	encyclopedia	50760	1	310
5	spatulaa	5360	4	430

Figure 16 select items

## 6) Bills:

#### Create bills:

```
MariaDB [mystore]> create table bills(bill_id int primary key AUTO_increment,quantity int,amount int ,price int,customer_id int,foreign key(customer_id) references custome
r(customer_id));
Query OK, 9 rows affected (0.026 sec)
```

Figure 17create bill

#### Desc bills

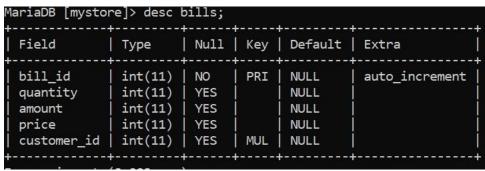


Figure 18desc bill

#### Inserting and selecting bill in tables

```
MariaDB [mystore]> insert into bills values(1,2,3000,2000,110);
Query OK, 1 row affected (0.005 sec)

MariaDB [mystore]> insert into bills values(2,3,300,500,112);
Query OK, 1 row affected (0.005 sec)

MariaDB [mystore]> insert into bills values(3,3,30,5080,113);
Query OK, 1 row affected (0.005 sec)

MariaDB [mystore]> insert into bills values(4,1,3042,50760,310);
Query OK, 1 row affected (0.004 sec)

MariaDB [mystore]> insert into bills values(5,4,302,5360,430);
Query OK, 1 row affected (0.004 sec)
```

Figure 19insert bill

The second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second second secon				
customer_id	price	amount	quantity	bill_id
			+	
110	2000	3000	2	1
112	500	300	3	2
113	5080	30	3	3
310	50760	3042	1	4
430	5360	302	4	5 l

Figure 20select bill

#### DATA DICTIONARY

Data dictionary is a table with data elements (columns) as rows and their attributes as columns. Specific attributes vary depending on the purpose of the data dictionary.

Data dictionary has 2 essential elements:

- 1. List of tables (or entities)
- 2. List of columns (or fields, or attributes)

Relational database engines enable much more description of data models and provide this information through their data dictionaries. This information is:

- Data type of column,
- · Default values for columns,
- Nullability of columns,
- Table relationships (foreign keys),
- Uniqueness of column values (primary and unique keys),
- Data elements descriptions (Anon., n.d.)

Here,I have made a data dictionary of the following above entities which I have used in above databases like as executive, workers, customers, orders, items and bills. These entities contain their own different attributes by describing their entity, column name, column description, data type length likewise, primary key, foreign key

Nullable, unique and notes of their entity.

## 1) Executive

Entity name	Entity description	Column name	Column description	Data type	Length	Primar y key	Foreig n key	Nullabl e	Uniqu e	notes
Executive	A executive is a person who executes the material in the shopping mall.	Executi ve id	This column store id of executive person for unique identificatio n of each executive.	int		True	false	false	True	Auto increment increases the number of executive id automatically .
		Name	This column stores the name of the executive	varchar	255	False	false	False	False	
	а	address	This column stores address of executive	varchar	255	False	False	False	False	
		Phone no	This column stores phone number of executive	varchar	255	False	False	False	False	
		email	This column stores email of executive	varchar	255	False	false	false	false	It is references of executive if from executive table in workers column

Figure 21data dictionary of executive

## 2) Worker:

Entity name	Entity description	Column name	Column description	Data type	Length	Primar y key	Foreig n key	Nullabl e	Uniqu e	notes
Workers	A worker is someone who deals with the customer	Worker id	This column store id of worker person for unique identificatio n of each workers.	int		true	False	False	true	Auto increment increases the number of executive id automatically .
		Name	This column stores the name of the workers	varchar	255	False	False	False	False	
		address	This column stores address of workers	varchar	255	False	False	False	False	
		Phone no	This column stores phone number of workers	varchar	255	False	false	False	False	
		email	This column stores email of workers	varchar		false	true	False	False	It is references of workers id from worker table in customer colum

Figure 22data dictionary workers

## CC4057NI

## 3) Customers

Entity name	Entity descripti on	Column name	Column descripti on	Data type	Lengt h	Prima ry key	Forei gn key	Nullabl e	Uniqu e	notes
custome rs	A customer is a one who makes different order at shopping mall	Custom er id	This column stores the id of customer	int		True	false	False	True	Auto incremen t increase s the number of customer id automati cally
		Custom er no	This column stores no of customer in it.	varch ar	255	False	False	False	False	
		Name	This column stores the name of customer i	varch ar	255	False	False	False	False	
		Addres s	This column stores the address of customer	varch ar	255	False	False	False	False	
		Worker s id	This column stores id of workers in the customer tables	int		false	True	False	false	It is references of customer id from orders table in workers column

Figure 23datadictionary customer

## CC4057NI

## 4) Orders:

Entity name	Entity descriptio n	Column name	Column descriptio n	Data type	Lengt h	Primar y key	Foreig n key	Nullabl e	Uniqu e	notes
Order s	Order is somethin g where customer gives order to the shopping mall	Order id	This column stores order in it.	int		True	false	False	True	An auto increme nt increase s the number of order id automati cally
		Name	This column stores name of order.	varch ar	255	False	false	False	False	
		Date	This column stores the date of order.	int		False	False	False	False	
		Quantity	This column stores the quantity of orders.	int		False	False	False	False	
		Custom er id	This column stores id of customer in order table.	int		false	True	False	False	It is references of custome rid from orders table in workers column

Figure 24data dictionary orders

## 5) Items:

Entity	Entity	Column	Column	Data	Length	Primar	Foreig	Nullabl	Uniqu	notes
name	description	name	description	type		y key	n key	е	е	
Items	An item is one who has the bill of items in the shopping store	Item id	This column store id of item in each item table.	int		True	False	False	true	Auto increment increases the number of item id automatically
		Item name	This column stores the name of the items	varchar	255	False	False	False	False	
		Item price	This column price of items	int		False	False	False	False	
		quantity	This column stores quantity of item in table	int		False	False	False	False	
		Customer id	This column stores id of customer in the table	int		False	True	False	False	It is references of customer id from customer table in the item column

Figure 25data dictionary of item column

## 6) Bills:

Entity name Executive	Entity description	Column name	Column description	Data type	Length	Primar y key	Foreig n key	Nullabl e	Uniqu e	notes
Bills	A bill is the statement of the order or items	Bill id	This column store id of bill in the table.	int		true	False	False	True	Auto increment increases the number of bill id automatically
		Price	This column stores the price of the item	int		False	False	False	False	
		quantity	This column stores quantity of item	int		False	False	False	False	
		Item name	This column stores name of each item	varchar	255	False	False	False	False	
		Custom er id	This column stores customer id from customer	int		False	True	False	False	It is references of customer id from customer table in bill column

Figure 26data dictionary of bill column

## **QUERIES**

1. Show the details of workers whose are from koteshwor and sinnamangal .

worker_id	workername	address	contactno	email	executive_id
1	ram	koteshwor	98764	0	2
2	shyam	kolkata	98364	0	3
3	sanu	sinnamangal	983754	0	4
4	lalluu	pipil	983724	0	5
5	lali	nepal	983734	0	6

worker_id	workername	address	contactno	email	executive_id
1	ram	koteshwor	98764	0	2
3	sanu	sinnamangal	983754	0	4
4	lalluu	pipil	983724	0	5
5	lali	nepal	983734	0	6

Figure 27queries of between

The designed query is Between which will lists all the between data in table format and will show all the workers according to their address between koteshwor and sinnamangal.

2. Show the count of the total bills from the bill\_id of bills tables.

MariaDB [my	/store]> sel	lect *fror	m bills;	
bill_id	quantity	amount	price	customer_id
+	2	3000	   2000	110
2	3	300	500	112
3	3	30	5080	113
4	1	3042	50760	310
5	4	302	5360	430
+		·	+	

Figure 28queries count

The designed query is for count which will count the number of customers ordered number of item.

3. Show the distinct (address) from workers column.

workername   	address	contactno	email	executive id
ram				CACCACIVE_IG
	koteshwor	98764	0	2
shyam	kolkata	98364	0	3
sanu	sinnamangal	983754	0	4
lalluu	pipil	983724	0	5
lali	nepal	983734	0	6
re]> SELECT   +   +         	DISTINCT(addre	ss) FROM Wor	kers;	
	lalluu lali	lalluu   pipil lali   nepal	lalluu   pipil   983724 lali   nepal   983734	lalluu pipil 983724 0

The designed query is used to distinct address of workers from the workers table .

Figure 29queries distinct

4. Select total number of orders GROUP BY customer id from orders table.

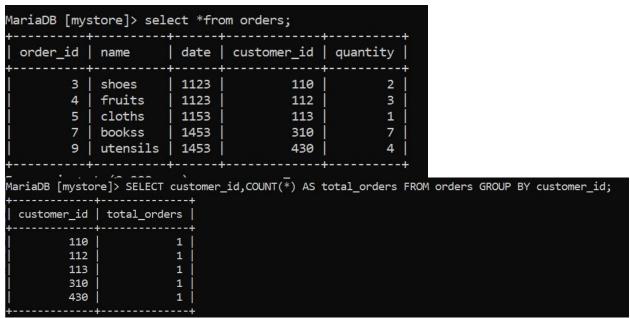


Figure 30limit queries

The designed query is used to limit name from the customer table

5. Select the address using like from workers on workers tables.

worker_id	workername	address	contactno	email	executive_id
1	ram	koteshwor	98764	0	2
2	shyam	kolkata	98364	0	3
3	sanu	sinnamangal	983754	0	4
4	lalluu	pipil	983724	0	5
5	lali	nepal	983734	0	6

The designed query is used to like address of workers from the workers table.

6. Select the order name from customer table.

ariaDB [mystor	elv serect	trom custome	· ,	
customer_id	customerno	address	worker_id	name
110	5	bharatur	3	gita
112	8	bhaktapur	2	rita
113	7	lalitpur	1	sita
310	35	betiur	4	mita
430	835	belauri	5	shreya

MariaDB [mystor +	e]> select *-	From customen	order by na	ame DESC;
customer_id	customerno	address	worker_id	name
113	7	lalitpur	1	sita
430	835	belauri	5	shreya
112	8	bhaktapur	2	rita
310	35	betiur	4	mita
110	5	bharatur	3	gita

Figure 32orderby queries

The designed query is used Order by name of customer from the customer table

## 7. Select from Join query

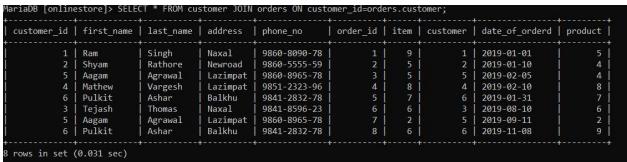


Figure 33 join query

## 8. Select from Left join query

## CC4057NI

## Introduction to information system

ustomer_id	first_name	last_name	address	phone_no	order_id	item	customer	date_of_orderd	product
1	Ram	Singh	Naxal	9860-8090-78	1	9	1	2019-01-01	5
2	Shyam	Rathore	Newroad	9860-5555-59	2	5	2	2019-01-10	4
3	Tejash	Thomas	Naxal	9841-8596-23	6	6	3	2019-08-10	6
4	Mathew	Vargesh	Lazimpat	9851-2323-96	4	8	4	2019-02-10	8
5	Aagam	Agrawal	Lazimpat	9860-8965-78	3	5	5	2019-02-05	4
5	Aagam	Agrawal	Lazimpat	9860-8965-78	7	2	5	2019-09-11	2
6	Pulkit	Ashar	Balkhu	9841-2832-78	5	7	6	2019-01-31	7
6	Pulkit	Ashar	Balkhu	9841-2832-78	8	6	6	2019-11-08	9

Figure 34 left join query

## 9. Select from Right join query

der_id	item	customer	date_of_orderd	product	item_id	item_name	supplier	quantity	size
1	9	1	2019-01-01	5	1	T-Shirt	2	10	
2	5	2	2019-01-10	4	2	Shirt	1	50	
6	6	3	2019-08-10	6	3	Pant	3	50	
4	8	4	2019-02-10	8	4	Mens Shoes	6	10	
3	5	5	2019-02-05	4	5	Slipper	5	80	j
7	2	5	2019-09-11	2	5	Slipper	5	80	
5	7	6	2019-01-31	7	6	Women Shoes	4	40	
8	6	6	2019-11-08	9	6	Women Shoes	4	40	
NULL	NULL	NULL	NULL	NULL	7	Boots	4	50	į.
NULL	NULL	NULL	NULL	NULL	8	Jacket	2	20	
NULL	NULL	NULL	NULL	NULL	9	sweater	1	15	

Figure 35 right join query

10. Select the limit of customer order by name from customer table.

	<del> </del>	+	+	
customer_id	customerno	address	worker_id	name
110	5	bharatur	3	gita
112	8	bhaktapur	2	rita
113	7	lalitpur	1	sita
310	35	betiur	4	mita
430	835	belauri	5	shreya

The designed query is used to limit name from the customer table.

#### CONCLUSION

The project entitled **Online shopping store** was completed successfully.

The entire project has been developed with much care and free of errors at the same time it is efficient and less time consuming. The main purpose of this project is to develop an organization for purchasing items from a shopping mall through online source or physical apperence.

This project help in gaining valuable information and practical knowledge on several topics like, making databases, queries, data dictionary, ER diagram, relational database etc. Also the project helps us to understand about the entire process more clearly and efficiently. This project has given us great satisfaction by making a database which can be implemented to any nearby shops or store of branded shops selling various kind of products or goods by simple modifications.

A number of feature can be added to this system in the future if any informative entity is needed so that different offers can be given to each customers. System may keep track of history of purchases of each customer and provide suggestion based on their history. These feature could have been implemented unless the time did not limited us.

## **BIBLOGRAPHY**

## **Bibliography**

Anon., n.d. www.bitdegree.org/.../what-is-a-relational-database. [Online]. oracle, jun -10 -2016. s.l.: s.n. oracle, n.d. database. zwass, v., n.d. information system.

## References

Anon., n.d. www.bitdegree.org/.../what-is-a-relational-database. [Online]. oracle, jun -10 -2016. s.l.: s.n. oracle, n.d. database. zwass, v., n.d. information system.