DELHI TECHNOLOGICAL UNIVERSITY

DATABASE MANAGEMENT SYSTEM FINAL PROJECT REPORT

COMPANY AND GOODS MANAGEMENT SYSTEM

SUBMITTED BY :

Nitin Verma
(2k19/CO/261)
Prateek Tomar
(2K19/CO/290)

SUBMITTED TO :

Ms. Indu Singh
Assistant Professor
Department of CSE,DTU

ACKNOWLEDGEMENT

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ABSTRACT

The project titled as "Company and Goods Management System" is developed in vb as front end and ms access as back end. A Company and Management system is a set of policies, processes and procedures used by an organization to ensure that it can fulfill the tasks required to achieve its objectives. These objectives cover many aspects of the organization's operations (including financial success, safe operation, product quality, client relationships, legislative and regulatory conformance and worker management).

INTRODUCTION

DEFINATION :

A Company and Goods Management System is a set of tools
for planning and implementing policies, practices, guidelines,
processes and procedures that are used in
the development, deployment and execution of business plans
and strategies and all associated management activities.

PURPOSE :

The purpose of "Company and Goods management System" is
to ensure every time a process is performed, the same
information, methods, skills and controls are used and applied in
a consistent manner. If there are process issues or opportunities,
this is then fed into the quality management system to ensure
continuous improvement. The main aim of the project is to
manage the company through this software project.

OVERVIEW :

➢ The main processes in this project are login, customer, dealer,
products, employee, attendance, sales, purchase, income,
expense and reports.
➢ The administrator enters the username and password to login
to the project. If the details are correct, it will open the next
form. If the details are incorrect, it will show error message.

- All customer details are entered by the administrator. The customer name, address, phone and email are entered in this module.
- The entered customer details can be modified or deleted by the administrator.
- All dealer details are entered in this module. The dealer name, address, phone number and email are entered in this module.
- The entered dealer details can be modified or deleted by the administrator. All product details available in the company are entered in this module.
- The product name, product category, unit price and stock are entered in this module. The entered details can be modified or deleted by the administrator. All employee details are entered in this module.
- The employee name, address, phone, date of birth, qualification, date of joining are entered in this module.
- The entered employee details can be modified or deleted by the administrator.
- All product purchase details are entered in this module. The dealer name, product name, number of products, price, total price and date of purchase are entered in this process.
- All product sales details are entered in this module.
- The customer name, product name, number of products, price, total price and date of sales are entered in this process.
- The administrator can enter the income details of the company through this project.
- The income from, amount received by, reason and the date of income are entered in this project. The administrator can enter the expense details of the company through this project. The expense given by, amount given, received by, reason and the date of expense are entered in this project. The system generates the required reports in this project.
- Customer report, Dealer reports, Product reports, Employee reports, Sales reports, Purchase reports are displayed in this project.

PROGRAM FUNCTIONS :

CREATING TABLES:

BRANCH_TABLE :

ORACLE Database Express Edition

User: NITIN VERMA

Home > SQL > SQL Commands

☑ Autocommit Display 10 ▾

```
SELECT* FROM BRANCH;
```

Results Explain Describe Saved SQL History

BRANCH_ID	BRANCH_NAME	MGR_ID	MGR_START_DATE
1	Corporate	100	09-FEB-06
2	Scranton	102	06-APR-92
3	Stamford	106	13-FEB-98

3 rows returned in 0.03 seconds   CSV Export

BRANCH_SUPPLIER_TABLE :

ORACLE Database Express Edition

User: NITIN VERMA

Home > SQL > SQL Commands

☑ Autocommit Display 10 ▾

```
SELECT* FROM BRANCH_SUPPLIER;
```

Results Explain Describe Saved SQL History

BRANCH_ID	SUPPLIER_NAME	SUPPLY_TYPE
2	Hammer Mill	Paper
2	Uni-ball	Writing Utensils
3	Patriot Paper	Paper
2	J.T. Forms & Labels	Custom Forms
3	Uni-ball	Writing Utensils
3	Hammer Mill	Paper
3	Stamford Lables	Custom Forms

7 rows returned in 0.02 seconds   CSV Export

EMPLOYEE_TABLE :

Home > SQL > SQL Commands

☑Autocommit Display 10 ⌄

```
SELECT* FROM EMPLOYEE;
```

Results Explain Describe Saved SQL History

EMP_ID	FIRST_NAME	LAST_NAME	BIRTH_DAY	SEX	SALARY	SUPER_ID	BRANCH_ID
100	David	Wallace	17-NOV-67	M	250000	-	1
101	Jan	Levinson	11-MAY-61	F	110000	100	1
102	Michael	Scott	15-MAR-64	M	75000	100	2
103	Angela	Martin	25-JUN-71	F	63000	102	2
104	Kelly	Kapoor	05-FEB-80	F	55000	102	2
105	Stanley	Hudson	19-FEB-58	M	69000	102	2
106	Josh	Porter	05-SEP-69	M	78000	100	3
107	Andy	Bernard	22-JUL-73	M	65000	106	3
108	Jim	Halpert	01-OCT-78	M	71000	106	3

9 rows returned in 0.07 seconds   CSV Export

CLIENT_TABLE :

Home > SQL > SQL Commands

☑Autocommit Display 10 ⌄

```
SELECT* FROM CLIENT;
```

Results Explain Describe Saved SQL History

CLIENT_ID	CLIENT_NAME	BRANCH_ID
400	Dunmore Highschool	2
401	Lackawana Country	2
402	FedEx	3
403	John Daly Law, LLC	3
404	Scranton Whitepages	2
405	Times Newspaper	3
406	FedEx	2

7 rows returned in 0.01 seconds   CSV Export

WORKS_WITH_TABLE :

ORACLE Database Express Edition

User: NITIN VERMA

Home > SQL > SQL Commands

☑ Autocommit   Display [10 ▾]
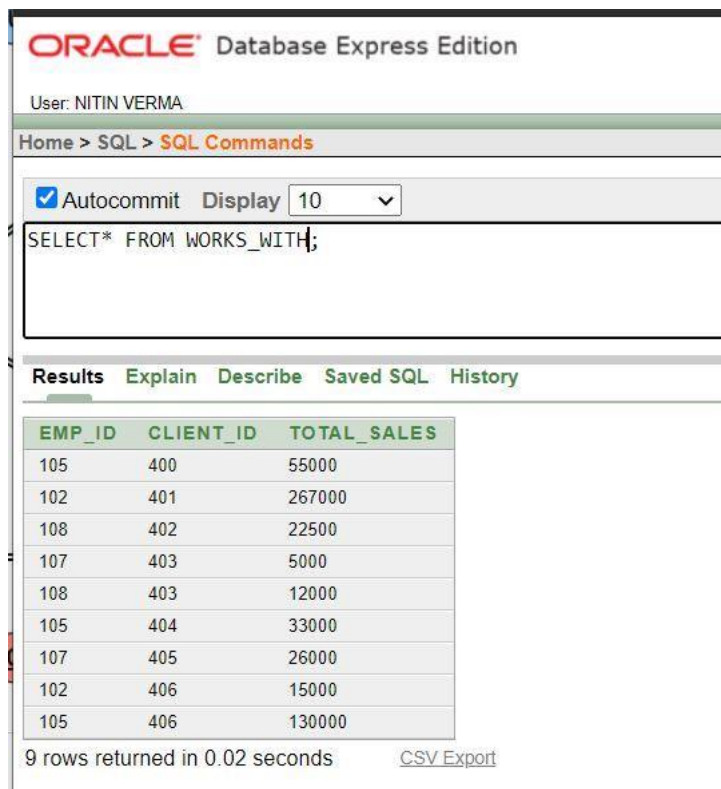
```
SELECT* FROM WORKS_WITH;
```

Results   Explain   Describe   Saved SQL   History

EMP_ID	CLIENT_ID	TOTAL_SALES
105	400	55000
102	401	267000
108	402	22500
107	403	5000
108	403	12000
105	404	33000
107	405	26000
102	406	15000
105	406	130000

9 rows returned in 0.02 seconds   CSV Export

SOURCE CODE :

/ / CREATING TABLES:

```
CREATE TABLE employee (
  emp_id INT PRIMARY KEY,
  first_name VARCHAR(40),
  last_name VARCHAR(40),
  birth_day DATE,
  sex VARCHAR(1),
  salary INT,
  super_id INT,
```

```sql
  branch_id INT
);

CREATE TABLE branch (
  branch_id INT PRIMARY KEY,
  branch_name VARCHAR(40),
  mgr_id INT,
  mgr_start_date DATE,
  FOREIGN KEY(mgr_id) REFERENCES employee(emp_id)
ON DELETE SET NULL
);

ALTER TABLE employee
ADD FOREIGN KEY(branch_id)
REFERENCES branch(branch_id)
ON DELETE SET NULL;

ALTER TABLE employee
ADD FOREIGN KEY(super_id)
REFERENCES employee(emp_id)
ON DELETE SET NULL;

CREATE TABLE client (
  client_id INT PRIMARY KEY,
  client_name VARCHAR(40),
  branch_id INT,
  FOREIGN KEY(branch_id) REFERENCES branch(branch_id)
ON DELETE SET NULL
);

CREATE TABLE works_with (
  emp_id INT,
  client_id INT,
  total_sales INT,
  PRIMARY KEY(emp_id, client_id),
  FOREIGN KEY(emp_id) REFERENCES employee(emp_id)
ON DELETE CASCADE,
```

```sql
  FOREIGN KEY(client_id) REFERENCES client(client_id)
ON DELETE CASCADE
);

CREATE TABLE branch_supplier (
  branch_id INT,
  supplier_name VARCHAR(40),
  supply_type VARCHAR(40),
  PRIMARY KEY(branch_id, supplier_name),
  FOREIGN KEY(branch_id) REFERENCES branch(branch_id)
ON DELETE CASCADE
);
```

/ / INSERTING INTO TABLES :

```sql
INSERT INTO employee VALUES(100, 'David', 'Wallace',
TO_DATE('1967-11-17','YYYY-MM-DD'), 'M', 250000,
NULL, NULL);

INSERT INTO branch VALUES(1, 'Corporate', 100,
TO_DATE('2006-02-09','YYYY-MM-DD'));

UPDATE employee
SET branch_id = 1
WHERE emp_id = 100;

INSERT INTO employee VALUES(101, 'Jan', 'Levinson',
TO_DATE('1961-05-11','YYYY-MM-DD'), 'F', 110000, 100, 1);

-- Scranton
INSERT INTO employee VALUES(102, 'Michael', 'Scott',
TO_DATE('1964-03-15','YYYY-MM-DD'), 'M', 75000, 100,
NULL);

INSERT INTO branch VALUES(2, 'Scranton', 102,
TO_DATE('1992-04-06','YYYY-MM-DD'));
```

```sql
UPDATE employee
SET branch_id = 2
WHERE emp_id = 102;

INSERT INTO employee VALUES(103, 'Angela', 'Martin',
TO_DATE('1971-06-25','YYYY-MM-DD'), 'F', 63000, 102, 2);
INSERT INTO employee VALUES(104, 'Kelly', 'Kapoor',
TO_DATE('1980-02-05','YYYY-MM-DD'), 'F', 55000, 102, 2);
INSERT INTO employee VALUES(105, 'Stanley', 'Hudson',
TO_DATE('1958-02-19','YYYY-MM-DD'),'M', 69000, 102, 2);

-- Stamford
INSERT INTO employee VALUES(106, 'Josh', 'Porter',
TO_DATE('1969-09-05','YYYY-MM-DD'), 'M', 78000, 100,
NULL);

INSERT INTO branch VALUES(3, 'Stamford', 106,
TO_DATE('1998-02-13','YYYY-MM-DD'));

UPDATE employee
SET branch_id = 3
WHERE emp_id = 106;

INSERT INTO employee VALUES(107, 'Andy', 'Bernard',
TO_DATE('1973-07-22','YYYY-MM-DD'), 'M', 65000, 106, 3);
INSERT INTO employee VALUES(108, 'Jim', 'Halpert',
TO_DATE('1978-10-01','YYYY-MM-DD'), 'M', 71000, 106, 3);


-- BRANCH SUPPLIER
INSERT INTO branch_supplier VALUES(2, 'Hammer Mill',
'Paper');
INSERT INTO branch_supplier VALUES(2, 'Uni-ball', 'Writing
Utensils');
INSERT INTO branch_supplier VALUES(3, 'Patriot Paper',
'Paper');
```

```sql
INSERT INTO branch_supplier VALUES(2, 'J.T. Forms &
Labels', 'Custom Forms');
INSERT INTO branch_supplier VALUES(3, 'Uni-ball', 'Writing
Utensils');
INSERT INTO branch_supplier VALUES(3, 'Hammer Mill',
'Paper');
INSERT INTO branch_supplier VALUES(3, 'Stamford Lables',
'Custom Forms');

-- CLIENT
INSERT INTO client VALUES(400, 'Dunmore Highschool', 2);
INSERT INTO client VALUES(401, 'Lackawana Country', 2);
INSERT INTO client VALUES(402, 'FedEx', 3);
INSERT INTO client VALUES(403, 'John Daly Law, LLC', 3);
INSERT INTO client VALUES(404, 'Scranton Whitepages', 2);
INSERT INTO client VALUES(405, 'Times Newspaper', 3);
INSERT INTO client VALUES(406, 'FedEx', 2);

-- WORKS_WITH
INSERT INTO works_with VALUES(105, 400, 55000);
INSERT INTO works_with VALUES(102, 401, 267000);
INSERT INTO works_with VALUES(108, 402, 22500);
INSERT INTO works_with VALUES(107, 403, 5000);
INSERT INTO works_with VALUES(108, 403, 12000);
INSERT INTO works_with VALUES(105, 404, 33000);
INSERT INTO works_with VALUES(107, 405, 26000);
INSERT INTO works_with VALUES(102, 406, 15000);
INSERT INTO works_with VALUES(105, 406, 130000);
```

COMPANY DATABASE

Employee

emp_id	first_name	last_name	birth_date	sex	salary	super_id	branch_id
100	David	Wallace	1967-11-17	M	250,000	NULL	1
101	Jan	Levinson	1961-05-11	F	110,000	100	1
102	Michael	Scott	1964-03-15	M	75,000	100	2
103	Angela	Martin	1971-06-25	F	63,000	102	2
104	Kelly	Kapoor	1980-02-05	F	55,000	102	2
105	Stanley	Hudson	1958-02-19	M	69,000	102	2
106	Josh	Porter	1969-09-05	M	78,000	100	3
107	Andy	Bernard	1973-07-22	M	65,000	106	3
108	Jim	Halpert	1978-10-01	M	71,000	106	3

Branch

branch_id	branch_name	mgr_id	mgr_start_date
1	Corporate	100	2006-02-09
2	Scranton	102	1992-04-06
3	Stamford	106	1998-02-13

Client

client_id	client_name	branch_id
400	Dunmore Highschool	2
401	Lackawana Country	2
402	FedEx	3
403	John Daly Law, LLC	3
404	Scranton Whitepages	2
405	Times Newspaper	3
406	FedEx	2

Works_With

emp_id	client_id	total_sales
105	400	55,000
102	401	267,000
108	402	22,500
107	403	5,000
108	403	12,000
105	404	33,000
107	405	26,000
102	406	15,000
105	406	130,000

Branch Supplier

branch_id	supplier_name	supply_type
2	Hammer Mill	Paper
2	Uni-ball	Writing Utensils
3	Patriot Paper	Paper
2	J.T. Forms & Labels	Custom Forms
3	Uni-ball	Writing Utensils
3	Hammer Mill	Paper
3	Stamford Lables	Custom Forms

Labels

	Primary Key
	Foreign Key
	Attribute

ER - DIAGRAM OF COMPANY AND GOODS MANAGEMNET SYSTEM
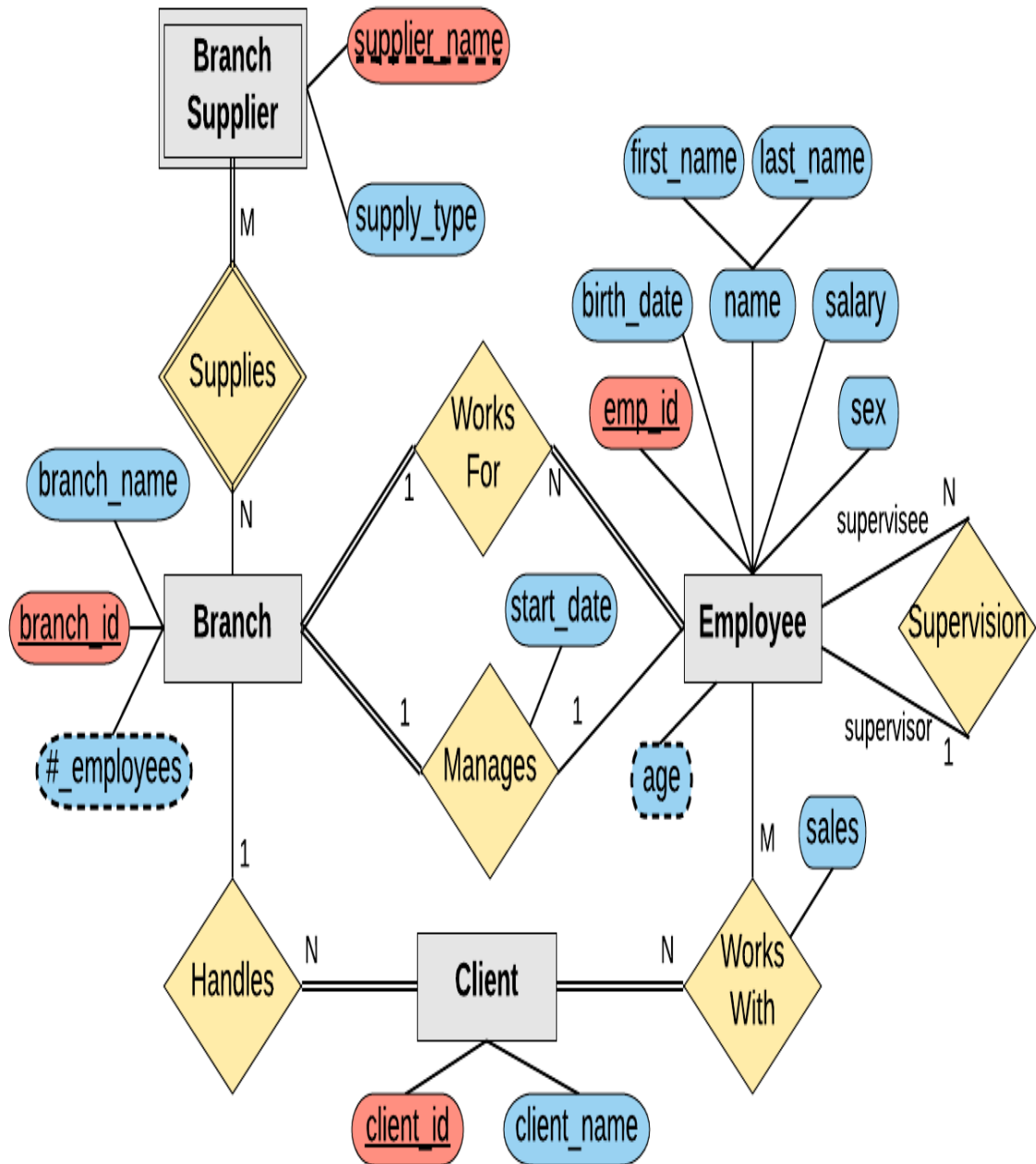
CONCLUSION

The Company and Goods Management System is fully meets the objectives of the system which it has been developed. The system has reached a steady state where all bugs have been eliminated. The system is operated at a high level of efficiency and all the employees and user associated with the system understands its advantage. The system solves the problem. It was intended to solve as requirement specification. The project has a very vast scope in future. The project can be implemented on intranet in future. Project can be updated in near future as and when requirement for the same arises, as it is very flexible in terms of experiment.

REFERENCES

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➢ https://www.geeksforgeeks.org
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