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**Sql project**

**Create a Database Schema and Table Relationships for a Logistic Company's Data**

**ABSTRACT**

Logistics is the support function of an organization and it means having the right object, at the right place, in the right time. Logistics deals with various kinds of methods to control the flow of resources from one place to another. One of the major and the most important factors that is costing is being dealt with utmost attention. The project is being designed keeping in mind the details of the various requirements of logistics such as keeping records of the goods; i.e. their details and the kind of content that is stored in the shipment which is to be delivered. A Relational Database Management System (RDBMS) is similar to DBMS. The difference is that in RDBMS, the entities and values in tables are related to one another. Also the tables are related to each other. Thus, it is called “Relational”.

**PROBLEM DESCRIPTION**

The logistics company provides services in both the international and domestic sectors. The logistics management takes into consideration every facility that has an impact on cost. It plays an important role in making the product confirm to customer requirements. Also, it involves efficient integration of suppliers, manufacturers, Import & export and other activities at many levels; from the strategic level through the tactical to the operational level. Customers can send different types of shipping contents. Payment is to be done at the same time the product is delivered to the client. Delivery boy and centre head can update the status of the shipment. Create a database schema and table relationships that can be used in any technology.

**SCOPE**

It is of critical importance to the organization how it delivers products & services to the customer, whether the product is tangible or intangible. Effective and efficient physical movement of the tangible product will speak of intangible services associated with the product and the organization which is delivering it. In case of intangible products, the delivery of tangibles at the right place & right time will speak about its quality. On the macro level infrastructure such as various modes of transport, transportation equipment, storage facilities, connectivity and information processing are contributing to a large extent in the physical movement of goods produced in manufacturing, mining and agriculture Sectors.

**CREATION OF SCHEMA**

CREATE SCHEMA LOGISTICS;

**TABLE DEFINATIONS**

CUSTOMER,

EMPLOYEE\_DETAILS,

SHIPPMENT\_DETAILS,

PAYMENT\_DETAILS,

MEMBERDHIP,

STATUS,

EMPLOYEE\_MANAGES\_SHIPMENT;

TABLE CUSTOMER

Cust\_ID INT NOT NULL,

Membership\_M\_ID INT NOT NULL,

Cust\_name VARCHAR(30) NULL,

Cust\_email\_id VARCHAR(50) NULL,

Cust\_type VARCHAR(20) NULL,

Cust\_addr VARCHAR(100) NULL,

Cust\_cont\_no VARCHAR (10) NULL,

PRIMARY KEY (Cust\_ID, Membership\_M\_ID)

);

TABLE EMPLOYEE\_DETAILS

Emp\_ID INT NOT NULL,

Emp\_name VARCHAR(30) NULL,

Emp\_designation VARCHAR(40) NULL,

Emp\_addr VARCHAR(100) NULL,

Emp\_branch VARCHAR(30) NULL,

Emp\_Cont\_no float NULL,

PRIMARY KEY (Emp\_id)

);

TABLE SHIPPMENT\_DETAILS

Sd\_id VARCHAR(6) NOT NULL,

Customer\_Cust\_ID INT NOT NULL,

Sd\_content VARCHAR(40) NULL,

Sd\_domain VARCHAR(15) NULL,

Sd\_type VARCHAR(15) NULL,

Sd\_weight VARCHAR(10) NULL,

Sd\_charges INT NULL,

Sd\_addr VARCHAR(100) NULL,

Ds\_Addr VARCHAR(100) NULL,

PRIMARY KEY (Sd\_id, Customer\_Cust\_ID)

);

TABLE PAYMENT\_DETAIL

PAYMENT\_ID VARCHAR(40) NOT NULL,

Shipment\_Details\_Customer\_Cust\_ID INT NOT NULL,

Shipment\_Details\_Sd\_id VARCHAR(6) NOT NULL,

Amount INT NULL,

Payment\_Status VARCHAR(10) NULL,

Payment\_Mode VARCHAR(25) NULL,

Payment\_Date TEXT NULL,

PRIMARY KEY (PAYMENT\_ID, Shipment\_Details\_Sd\_id, Shipment\_Details\_Customer\_Cust\_ID)

);

TABLE MEMBERSHIP

CREATE TABLE Membership(

M\_ID INT NOT NULL,

Start\_Date TEXT NULL,

End\_Date TEXT NULL,

PRIMARY KEY (M\_ID)

);

TABLE EMPLOYEE\_MANAGES\_SHIPMENTS

CREATE TABLE Employee\_Manages\_Shipment(

Employee\_E\_ID INT NOT NULL,

Shipment\_Sh\_id VARCHAR(6) NOT NULL,

Status\_Sh\_id VARCHAR(6) NOT NULL,

PRIMARY KEY (Employee\_E\_ID,Shipment\_Sh\_id, Status\_Sh\_id)

);

**QUERYS**

CREATE TABLE Customer(

Cust\_ID INT NOT NULL,

Membership\_M\_ID INT NOT NULL,

Cust\_name VARCHAR(30) NULL,

Cust\_email\_id VARCHAR(50) NULL,

Cust\_type VARCHAR(20) NULL,

Cust\_addr VARCHAR(100) NULL,

Cust\_cont\_no VARCHAR (10) NULL,

PRIMARY KEY (Cust\_ID, Membership\_M\_ID)

);

SELECT \* FROM Customer;

BULK INSERT Customer

FROM 'C:\Users\Santhosh\Desktop\customer.csv'

WITH (FIRSTROW = 2,

FIELDTERMINATOR = ',',

ROWTERMINATOR = '\n');

SELECT \* FROM Customer;

CREATE TABLE Employee\_Details(

Emp\_ID INT NOT NULL,

Emp\_name VARCHAR(30) NULL,

Emp\_designation VARCHAR(40) NULL,

Emp\_addr VARCHAR(100) NULL,

Emp\_branch VARCHAR(30) NULL,

Emp\_Cont\_no float NULL,

PRIMARY KEY (Emp\_ID)

);

BULK INSERT Employee\_Details

FROM 'C:\Users\Santhosh\Downloads\employee details.csv'

WITH (FIRSTROW = 2,

FIELDTERMINATOR = ',',

ROWTERMINATOR = '\n');

select \* from Employee\_Details;

CREATE TABLE Shipment\_Details(

Sd\_id VARCHAR(6) NOT NULL,

Customer\_Cust\_ID INT NOT NULL,

Sd\_content VARCHAR(40) NULL,

Sd\_domain VARCHAR(15) NULL,

Sd\_type VARCHAR(15) NULL,

Sd\_weight VARCHAR(10) NULL,

Sd\_charges INT NULL,

Sd\_addr VARCHAR(100) NULL,

Ds\_Addr VARCHAR(100) NULL,

PRIMARY KEY (Sd\_id, Customer\_Cust\_ID)

);

BULK INSERT Shipment\_details

FROM 'C:\Users\Santhosh\Downloads\shippment details.csv'

WITH (FIRSTROW = 2,

FIELDTERMINATOR = ',',

ROWTERMINATOR = '\n');

select \* from Shipment\_Details;

CREATE TABLE Payment\_Details(

PAYMENT\_ID VARCHAR(40) NOT NULL,

Shipment\_Details\_Customer\_Cust\_ID INT NOT NULL,

Shipment\_Details\_Sd\_id VARCHAR(6) NOT NULL,

Amount INT NULL,

Payment\_Status VARCHAR(10) NULL,

Payment\_Mode VARCHAR(25) NULL,

Payment\_Date TEXT NULL,

PRIMARY KEY (PAYMENT\_ID, Shipment\_Details\_Sd\_id, Shipment\_Details\_Customer\_Cust\_ID)

);

BULK INSERT Payment\_Details

FROM 'C:\Users\Santhosh\Downloads\payment details.csv'

WITH (FIRSTROW =2,

FIELDTERMINATOR = ',',

ROWTERMINATOR = '\n');

select \* from Payment\_Details;

CREATE TABLE Membership(

M\_ID INT NOT NULL,

Start\_Date TEXT NULL,

End\_Date TEXT NULL,

PRIMARY KEY (M\_ID)

);

bulk insert membership

from 'C:\Users\Santhosh\Downloads\membership (1).csv'

with (firstrow = 2,

fieldterminator = ',',

rowterminator = '\n');

select \* form membership;

CREATE TABLE Status(

Sh\_id VARCHAR(6) NOT NULL,

Current\_ST VARCHAR(15) NOT NULL,

Sent\_date TEXT NULL,

Delivery\_date TEXT NULL,

PRIMARY KEY (Sh\_id)

);

BULK INSERT Status

FROM 'C:\Users\Santhosh\Downloads\status.csv'

WITH (FIRSTROW = 2,

FIELDTERMINATOR = ',',

ROWTERMINATOR = '\n');

select \* from Status;

CREATE TABLE Employee\_Manages\_Shipment(

Employee\_E\_ID INT NOT NULL,

Shipment\_Sh\_id VARCHAR(6) NOT NULL,

Status\_Sh\_id VARCHAR(6) NOT NULL,

PRIMARY KEY (Employee\_E\_ID,Shipment\_Sh\_id, Status\_Sh\_id)

);

BULK INSERT Employee\_Manages\_Shipment

FROM 'C:\Users\Santhosh\Downloads\employee manage shipment.csv'

WITH (FIRSTROW = 2,

FIELDTERMINATOR =',',

ROWTERMINATOR ='\n');

select \* from Employee\_Manages\_Shipment;

**OUTPUTS**

TABLE CUSTOMERS

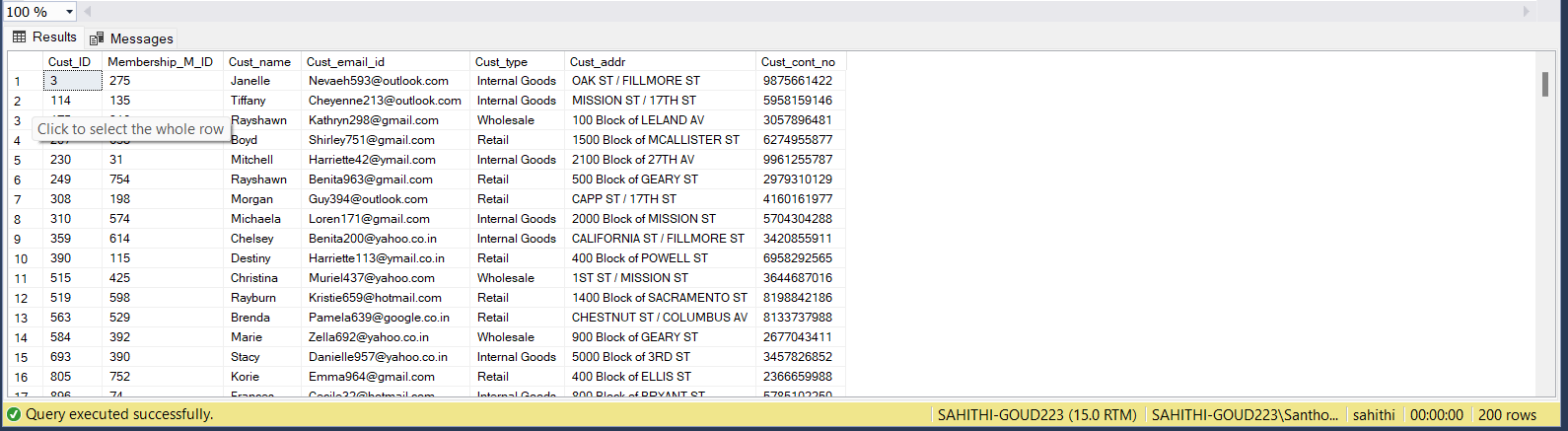


TABLE EMPLOYEE\_DETAILS

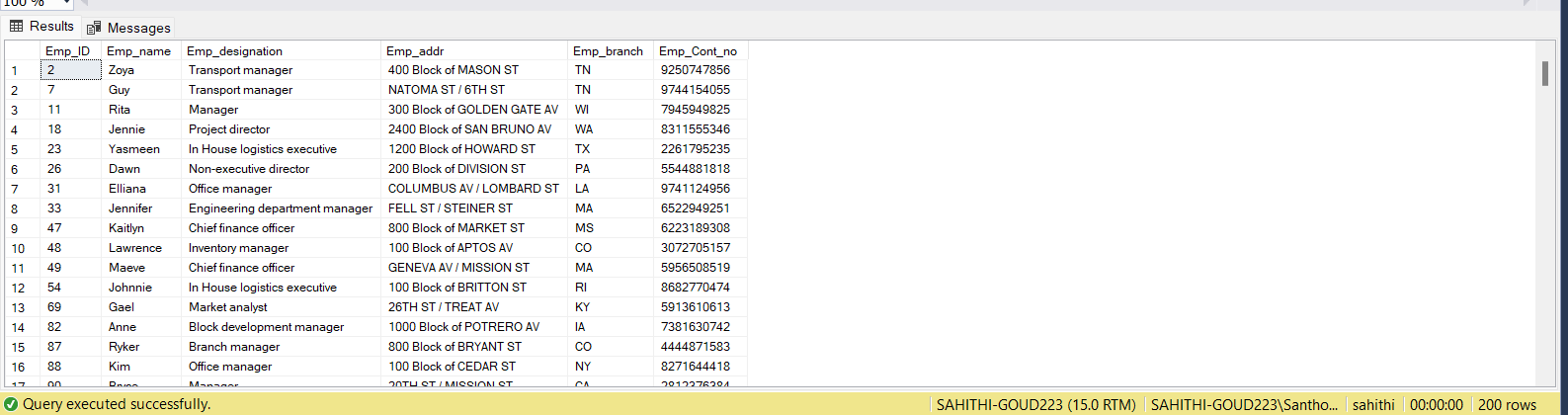


TABLE SHIPMENT DETAILS

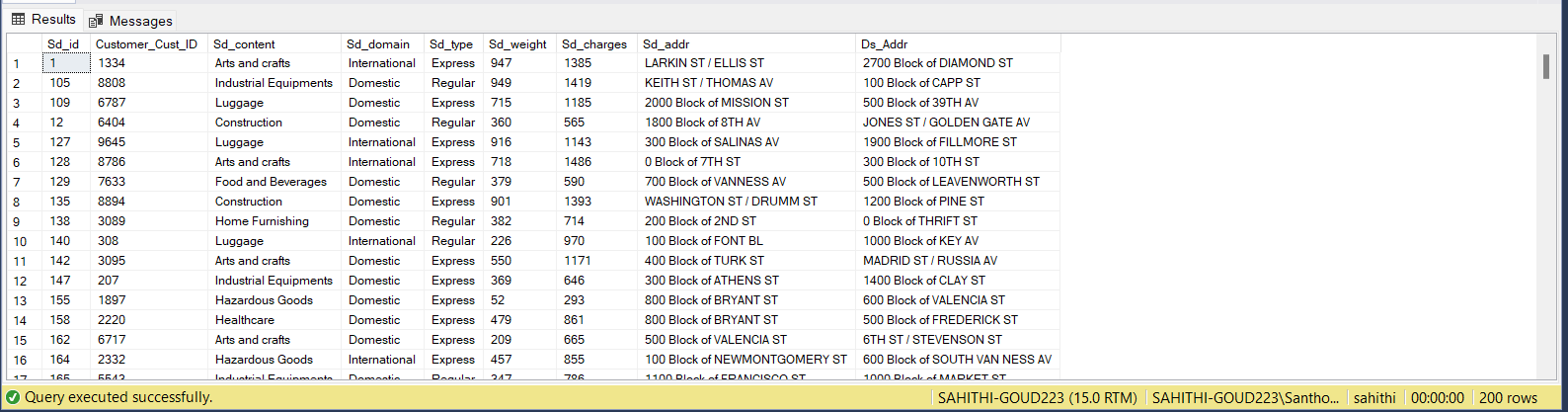


TABLE PAYMENT DETAILS

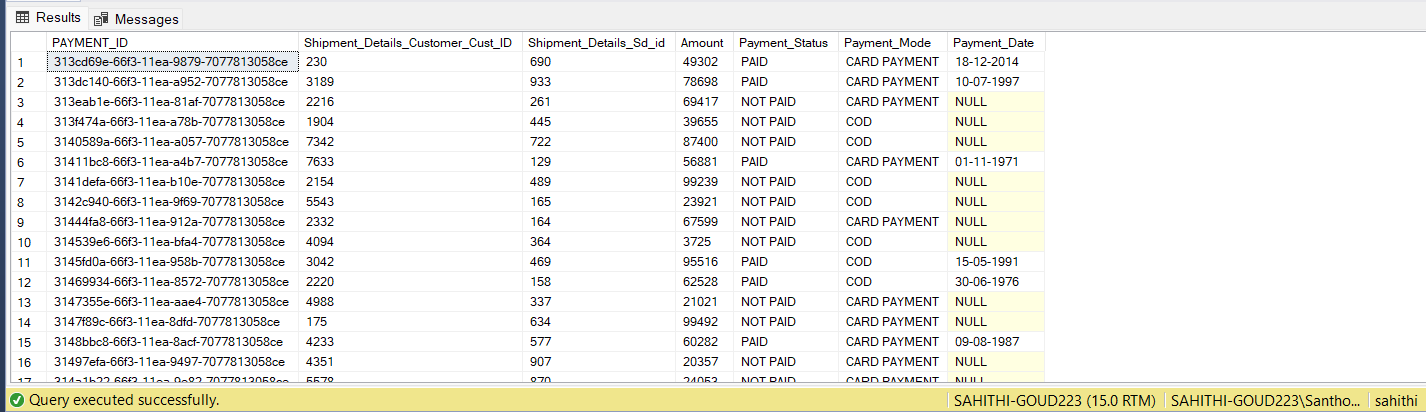


TABLE MEMBERSHIP

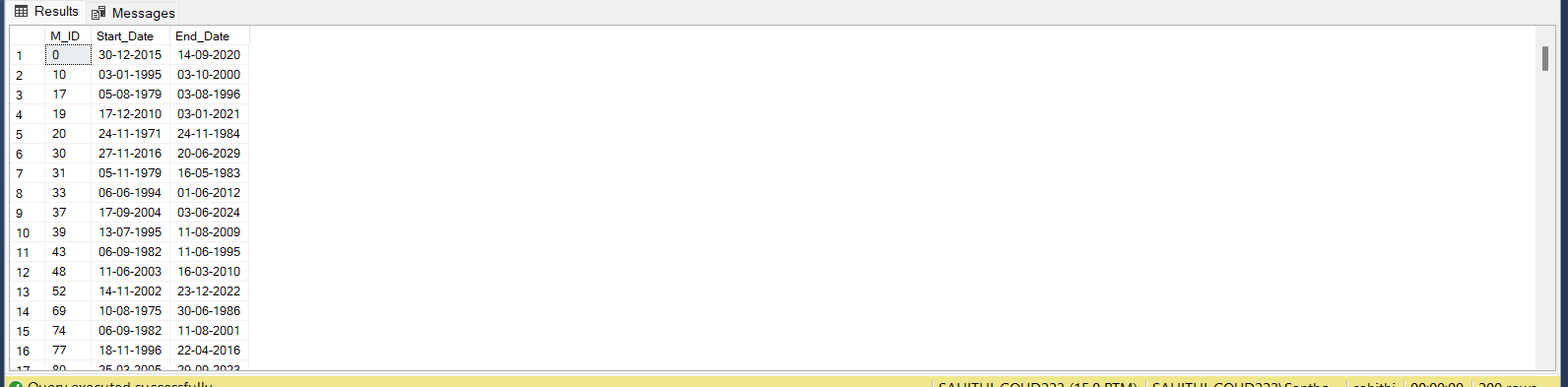


TABLE STATUS

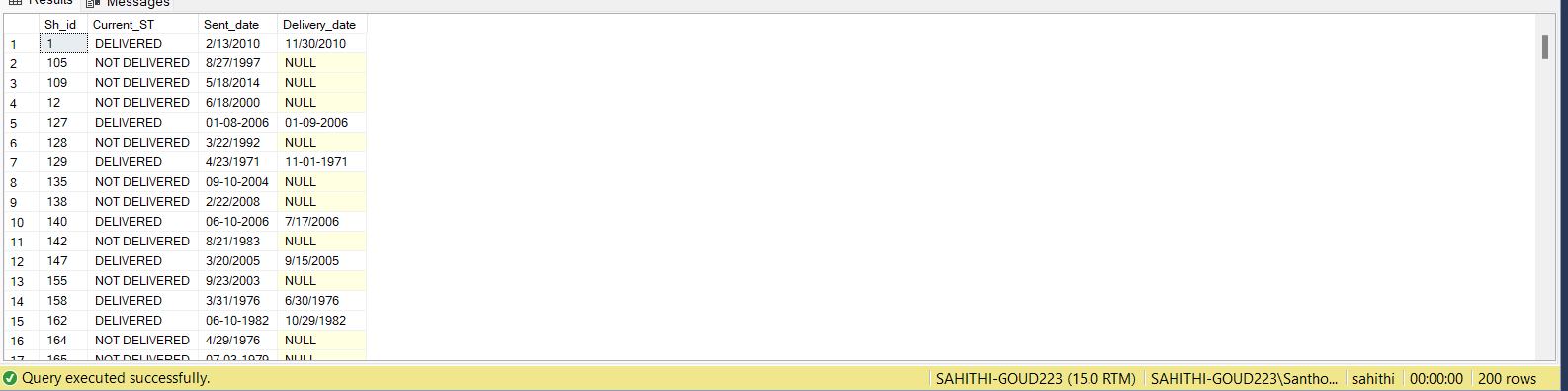
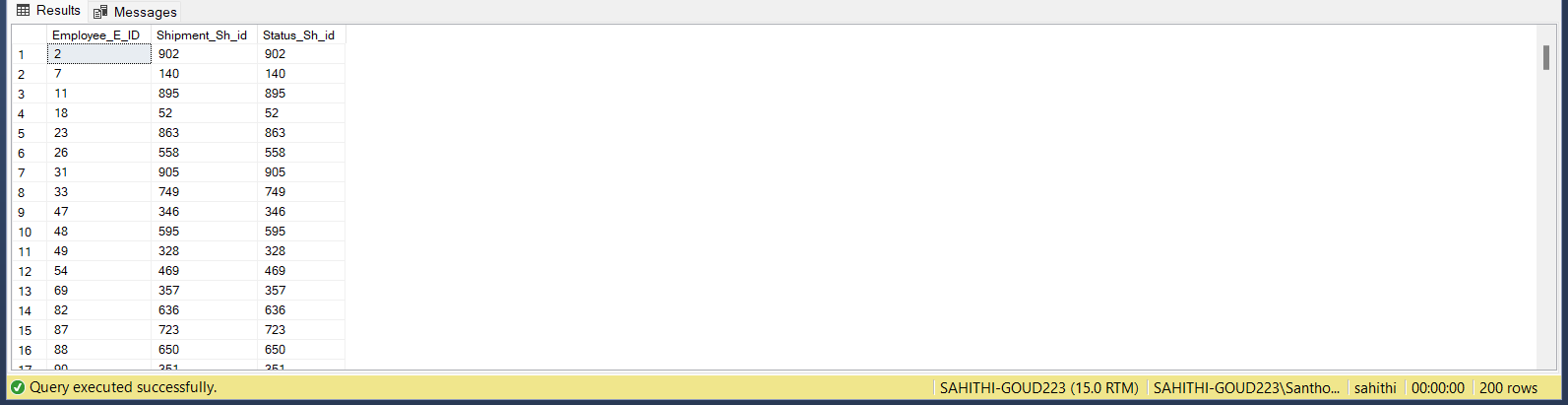


TABLE EMPLOYEE\_MANAGES\_DETAILS



**CONCLUSION**

Logistics systems and transportation consist of interdependent relationships that logistics management requires transportation to perform its day to day activities and meanwhile, a good logistics system can efficiently improve transportation development and traffic environment.

Logistics management is essential to the supply chain of a business. It ensures cost-effective measures and helps achieve the highest degree of customer satisfaction.