**Sales and Logistics Application**

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**GITHUB:** [**https://github.com/sharathbadam/Sales-and-Logistics.git**](https://github.com/sharathbadam/Sales-and-Logistics.git)

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**Initial Proposal**

In this project I am going to develop a sales and logistics application. This application integrates business operations, for sales and manufacturing.At the database level information from all the modules of the application needs to be stored.

In the database, mainly data related to customer and material are stored.

* Customer data – customer information like sales, transactional units,delivery and payment are stored here.
* Material data – information related to materials and services. The data can be purchasing data, accounting data, costing data and ware house management.

The database should be accessed, shared, and maintained easily.

Sales and agreement documents are created when a customer places an order in an organization to receive services and goods. While creating a sales order, the details of the customer and goods being purchased along with the quantity and time period to deliver the goods are recorded.

This kind of sales and agreement details are used in various business processes like standard orders,returns,delivery charges, credit amount, debit amount.

The application will also be receiving data from ERP andCRM systems, which integrates business operations, for sales and manufacturing.This integration is achieved by allowing different data sources and processes using various hardware and software products. It consists of various software applications or modules.

Hopefully I am looking forward to use python as presentation layer, Microsoft Azure for cloud services and SQL Server 2019 as Database systems in this sales and logistics application

Finally, the data is useful for sales and logistics employees from different geographical locations.

**Relational Database Design Process**

In this sales and logistics database design I am going to present few tables.

* Suppliers
* Customers
* Salesreport
* product
* currentstock
* user

**Database Tables Definition:**

**Suppliers**

{ sid(PK) int,

suppliercode varchar,

fullname varchar,

location varchar,

debit double,

credit double,

balance double

PID int}

**Customers**

{ cid(PK) int,

CustomerCode varchar,

fullname varchar,

location varchar,

Phone varchar}

**products**

{pid(PK) int,

pcode varchar,

pname varchar,

costprice double,

sellingprice double,

brand varchar,

CID int}

**Currentstocks**

{ productcode varchar,

quantity int }

**salesreport**

{ SID int,

date varchar,

customercode varchar,

pcode varchar,

quantity int,

revenue double,

soldbyvarchar }

**users**

{ID int,

FullName varchar,

Location varchar,

Phone varchar,

Username varchar,

Password varchar,

Category varchar}

**Inserting Sample Data into Tables::**

CREATE TABLE `suppliers` (

`sid` int(11) NOT NULL,

`suppliercode` varchar(100) NOT NULL,

`fullname` varchar(50) NOT NULL,

`location` varchar(50) NOT NULL,

`phone` varchar(10) NOT NULL

);

INSERT INTO `suppliers` (`sid`, `suppliercode`, `fullname`, `location`, `phone`) VALUES

(69, 'sup5', 'manish', 'ktm', '4123372'),

(68, 'sup4', 'sia', 'US', '11623231');

CREATE TABLE `customers` (

`cid` int(11) NOT NULL,

`customercode` varchar(100) NOT NULL,

`fullname` varchar(50) NOT NULL,

`location` varchar(50) NOT NULL,

`phone` varchar(50) NOT NULL

);

INSERT INTO `customers` (`cid`, `customercode`, `fullname`, `location`, `phone`) VALUES

(2, 'cus3', 'ram', 'ktm', '331');

CREATE TABLE `products` (

`pid` int(11) NOT NULL,

`productcode` varchar(100) NOT NULL,

`productname` varchar(50) NOT NULL,

`costprice` double NOT NULL,

`sellingprice` double NOT NULL,

`brand` varchar(50) NOT NULL

);

INSERT INTO `products` (`pid`, `productcode`, `productname`, `costprice`, `sellingprice`, `brand`) VALUES

(73, 'prod3', 'qq', 3, 2, '4d'),

(72, 'prod2', 'pen', 20, 30, 'techno'),

(71, 'prod1', 'waiwai', 400, 450, 'cg'),

(74, 'prod4', 'waiwai', 400, 450, 'cg2'),

(78, 'prod5', 'Mobile', 500, 700, 'cg');

CREATE TABLE `currentstocks` (

`productcode` varchar(100) NOT NULL,

`quantity` int(11) NOT NULL

);

INSERT INTO `currentstocks` (`productcode`, `quantity`) VALUES

('p2', 30),

('p1', 1),

('p10', 0),

('prod1', 0),

('prod2', -10);

CREATE TABLE `salesreport` (

`salesid` int(11) NOT NULL,

`date` varchar(40) NOT NULL,

`productcode` varchar(100) NOT NULL,

`customercode` varchar(100) NOT NULL,

`quantity` int(11) NOT NULL,

`revenue` double NOT NULL,

`soldby` varchar(50) NOT NULL

);

INSERT INTO `salesreport` (`salesid`, `date`, `productcode`, `customercode`, `quantity`, `revenue`, `soldby`) VALUES

(1, 'Fri Jan 16 23:12:40 NPT 2015', 'prod2', 'cus3', 4, 120, 'user4'),

(2, 'Thu Jan 08 21:30:51 NPT 2015', 'prod1', 'cus3', 5, 2250, 'sazanrjb'),

(3, 'Thu Jan 15 21:26:47 NPT 2015', 'prod1', 'cus3', 5, 2250, 'sazanrjb'),

(4, 'Sat Jan 17 10:08:20 NPT 2015', 'prod3', 'cus3', 1, 2, 'user4');

CREATE TABLE `users` (

`id` int(11) NOT NULL,

`fullname` varchar(50) NOT NULL,

`location` varchar(50) NOT NULL,

`phone` varchar(10) NOT NULL,

`username` varchar(20) NOT NULL,

`password` varchar(200) NOT NULL,

`category` varchar(20) NOT NULL

);

INSERT INTO `users` (`id`, `fullname`, `location`, `phone`, `username`, `password`, `category`) VALUES

(54, 'SajanRajbhandari', 'Pokhara', '9849284991', 'user4', 'cc03e747a6afbbcbf8be7668acfebee5', 'ADMINISTRATOR'),

(56, 'Ram', 'Kathmandu', '9849284991', 'user5', 'a791842f52a0acfbb3a783378c066b8', 'NORMAL USER'),

(57, 'shyam', 'ktm', '98239832', 'user6', 'affec3b64cf90492377a8114c86fc093', 'NORMAL USER');

**Week-3**

**ER Diagrams**



