**Lab 10**

**DDL**

202012053-202012054-202012055-202012056-202018027-202018028

**As our all tables are in BCNF form therefore there are no changes required. So, below are the DDL statements for all tables which remained same as before submitted document of DDL.**

=================================================================

Supplier

==================================================================

 create table supplier (

  supplierID char(10) PRIMARY KEY,

name varchar(50) not null,

contact char(10) not null,

Address Text,

CONSTRAINT contact CHECK (contact not like '%[^0-9]%')

 );

==================================================================

City

==================================================================

 create table city(

  cityid char(10) PRIMARY KEY,

name varchar(20) not null

 )

Warehouse

==================================================================

 create table warehouse(

  warehouseid char(10) PRIMARY KEY,

managerid char(10),

           cityid char(10) ,

name char(30) not null,

Total\_Capacity numeric,

usedcapacity numeric,

foreign key (cityid) REFERENCES city(cityid)

 )

 ==================================================================

itemCategory

==================================================================

 create table itemCategory (

  Categoryid char(10) PRIMARY KEY,

name varchar(20) not null,

desription text

 )

 ==================================================================

Item

==================================================================

 create table item(

  itemid char(10) PRIMARY KEY,

 Categoryid char(10),

 name varchar(20) not null,

 cost integer ,

 foreign key (Categoryid) REFERENCES itemcategory(Categoryid)

 )

==================================================================

Employee

==================================================================

create table employee(

emp\_id char(10) PRIMARY KEY,

warehouseid char(10) ,

name char(20),

salary numeric,

contact char(10) not null,

CONSTRAINT contact CHECK (contact not like '%[^0-9]%'),

foreign key (warehouseid) REFERENCES warehouse(warehouseid)

)

alter table warehouse add foreign key (managerid) REFERENCES employee(emp\_id)

==================================================================

vehicle

==================================================================

create  table vehicle(

vehicleid char(10) PRIMARY KEY,

model varchar(20)

)

==================================================================

Transport

==================================================================

create table transport(

transportid char(10) PRIMARY KEY,

emp\_id char(10) ,

vehicleid char(10),

date date,

foreign key (emp\_id) REFERENCES employee(emp\_id),

foreign key (vehicleid) REFERENCES vehicle(vehicleid) ON UPDATE RESTRICT

)

==================================================================

Orders

==================================================================

create table orders(

orderId char(10) PRIMARY KEY,

transportId char(10),

customerid char(10),

order\_Placed\_date date,

order\_delivery\_date date,

foreign key (transportId) REFERENCES transport(transportId),

foreign key (customerid) REFERENCES customer(customerid)

)

==================================================================

Customer

==================================================================

create table customer (

customerid char(10) PRIMARY KEY,

name varchar(20) not null,

contact char(10) not null,

address text,

city char(20),

CONSTRAINT contact CHECK (contact not like '%[^0-9]%')

)

==================================================================

Payment

==================================================================

create table payments2(

            orderid char(10) primary key,

accountno char(14),

total\_cost integer,

CONSTRAINT accountno CHECK (accountno not like '%[^0-9]%'),

foreign key (orderid) REFERENCES orders(orderid)  ON DELETE RESTRICT

)

==================================================================

OrderContains

==================================================================

create table ordercontains(

orderid char(10) REFERENCES orders(orderid) not null unique ON DELETE RESTRICT,

itemid char(10) REFERENCES item(itemid) not null unique ON UPDATE RESTRICT,

Quantity integer,

PRIMARY KEY (orderid,itemid)

)

 ==================================================================

SuppliedBy

==================================================================

create table suppliedby(

supplierID char(10) REFERENCES supplier(supplierID),

itemid char(10) REFERENCES ordercontains(itemid) not null ON UPDATE      CASCADE ,

orderid char(10) REFERENCES ordercontains(orderid) not null ON DELETE RESTRICT,

PRIMARY KEY (itemid,orderid)

)

==================================================================

Stock

==================================================================

create table stock(

itemid char(10) references item(itemid) ON UPDATE CASCADE,

warehouseid char(10) REFERENCES warehouse(warehouseid),

supplierID char(10) REFERENCES supplier(supplierID),

quantity integer ,

PRIMARY KEY (itemid,warehouseid,supplierID)

)