

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) unique 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) unique 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) unique 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)  
)
```