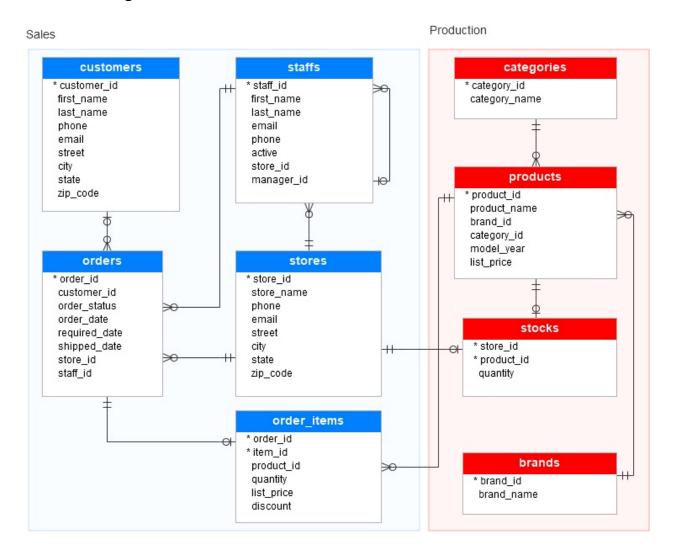
SQL EXERCISE-1 DTA TRAINING

Creating Schema Tables and establishing relationships

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Question Diagram



Code written

use Assessment

create schema sales

```
create table Sales.stores (
    store_id int identity (1, 1) primary key,
    store_name varchar (100) not null,
    phone varchar (20),
    email varchar (2),
    street varchar (100),
    city varchar (50),
    state varchar (10),
    zip_code varchar (10)
);
```

select * from sales.stores

```
create table Sales.staffs (
       staff id int identity (1, 1) primary key,
       first name varchar (50) not null,
       last name varchar (50) not null,
       email varchar (255) not null unique,
       phone varchar (25) unique,
       active tinyint not null,
       store id int not null,
       manager_id int,
       foreign key(store id)
     references sales.stores (store id)
     on delete cascade on update cascade,
       foreign key(manager id)
     references sales.staffs (staff id)
     on delete no action on update no action
);
select * from Sales.staffs
Assessment.sql - U...US\Imodugula (66)) + X
           references sales.stores (store_id)
           on delete cascade on update cascade,
        foreign key(manager_id)
           references sales.staffs (staff_id)
            on delete no action on update no action
    select * from Sales.staffs
   ⊟create schema Production
123 % 🕶 🖪
staff_id first_name last_name email phone active store_id manager_id
                                                   USHYDLMODU01 (16.0 RTM) US\Imodugula (66) master 00:00:00 0 rows
```

```
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Connect ▼ ¥ ■ ▼ ♂ →
                                                 select* from Production categories

☐ ■ USHYDLMODU01 (SQL Server 16.0.1000.6 - US\lmodugul)

    ⊞ ■ Security

                                                create table Production brands (

    ■ Server Objects

                                                      brand_id int identity (1, 1) primary key,
⊞ ■ Replication
                                                      brand_name varchar (200) not null
 ⊞ ■ Always On High Availability
 ⊞ ■ Management
                                                 select* from Production.brands

    ■ Integration Services Catalogs

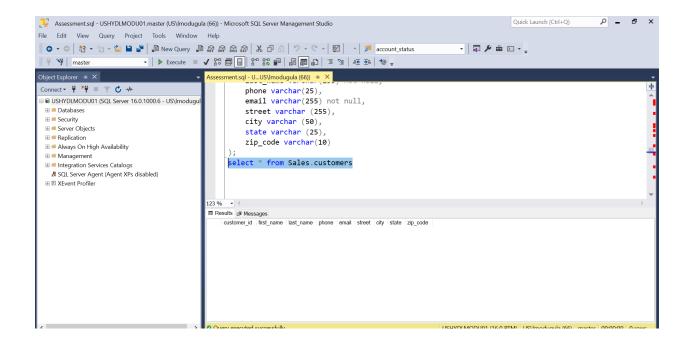
  USHYDLMODU01 (16.0 RTM) US\Imodugula (66) master 00:00:00 0 row
```

```
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 ₩ 🙀 | master
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                                  Assessment.sql - U...US\Imodugula (66)) + X
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                                              model_year smallint not null,
■ USHYDLMODU01 (SQL Server 16.0.1000.6 - US\Imodugu
                                              list_price decimal (10, 2) not null,
                                              foreign key(category_id)

    ■ Security
    ■ Server Objects
                                                  references production.categories (category_id)
                                                  on delete cascade on update cascade,
                                              foreign key (brand_id)
⊞ ■ Always On High Availability
                                                  references production.brands (brand_id)
⊞ ■ Management
                                                  on delete cascade on update cascade

■ SQL Server Agent (Agent XPs disabled)

select * from Production products
                                         product_id product_name brand_id category_id model_year list_price
```



```
create table Sales.orders (
      order_id int identity (1, 1) primary key,
      customer id int,
      order status int not null,
      order date date not null,
      required date date not null,
      shipped_date date,
      store id int not null,
      staff id int not null,
      foreign key(customer id)
    references sales.customers (customer id)
    on delete cascade on update cascade,
      foreign key(store id)
    references sales.stores (store id)
    on delete cascade on update cascade,
      foreign key (staff id)
    references sales.staffs (staff id)
    on delete no action on update no action
);
select*from Sales.orders
```

```
references sales.staffs (staff_id)
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                                                                   on delete no action on update no action
■ SUSHYDLMODU01 (SQL Server 16.0.1000.6 - US\lmodugi
 ⊞ ■ Databases
                                                        select*from Sales.orders
⊞ ■ Security

    ■ Server Objects

    ⊞ ■ Always On High Availability
    ■ ■ Management
                                                       ⊒create table Sales.order_items(
                                                             order_id int,

    ■ Integration Services Catalogs

                                                              item_id int,

    ■ SQL Server Agent (Agent XPs disabled)

                                                             product_id int not null,
                                                              quantity int not null,
                                                  order_id customer_id order_status order_date required_date shipped_date store_id staff_id
                                                                                                                          USHYDLMODU01 (16.0 RTM) US\Imodugula (66) master 00:00:00
```

```
create table Sales.order_items(
      order id int,
      item id int,
      product_id int not null,
      quantity int not null,
      list price decimal (10, 2) not null,
      discount decimal (4, 2) not null default 0,
      primary key (order id, item id),
      foreign key (order_id)
    references sales.orders (order id)
    on delete cascade on update cascade,
      foreign key (product id)
    references production.products (product_id)
    on delete cascade on update cascade
);
select * from Sales.order_items
```

```
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                                                       primary key (order_id, item_id),
                                                       foreign key (order_id)
■ B USHYDLMODU01 (SQL Server 16.0.1000.6 - US\lmodug

    ■ ■ Databases

                                                            references sales.orders (order id)

    ■ Security
                                                           on delete cascade on update cascade,

    ■ Server Objects

                                                       foreign key (product_id)
 ⊞ ■ Replication
                                                           references production.products (product_id)
 ⊞ ■ Always On High Availability

■ ■ Management
                                                            on delete cascade on update cascade
 ⊞ ■ Integration Services Catalogs
                                                   select * from Sales.order_items
order_id item_id product_id quantity list_price discount
```

```
create table Production.stocks (
    store_id int,
    product_id int,
    quantity int,
    primary key (store_id, product_id),
    foreign key (store_id)
    references sales.stores (store_id)
    on delete cascade on update cascade,
        foreign key (product_id)
    references production.products (product_id)
    on delete cascade on update cascade
);
select*from Production.stocks
```

