Exercise 1 - Part 2: Running SQL Commands

```
DROP TABLE IF EXISTS "Products";
CREATE TABLE Products
(
id int NOT NULL,
title varchar(255),
price double,
quantity int,
category varchar(255),
supplier varchar(255),
PRIMARY KEY (id)
);

DROP TABLE IF EXISTS "Customers";
CREATE TABLE Customers
(
id int NOT NULL,
cname varchar(255),
address varchar(255),
telephone varchar(255),
email varchar(255),
PRIMARY KEY (id)
);

DROP TABLE IF EXISTS "Suppliers";
CREATE TABLE Suppliers
(
sid int NOT NULL,
sup_name varchar(255),
address varchar(255),
city varchar(255),
province varchar(255),
postal_code varchar(255),
PRIMARY KEY (sid)
);

DROP TABLE IF EXISTS "Orders";
CREATE TABLE Orders
(
order_id int NOT NULL,
cust_id int,
order_date varchar(255),
order_status varchar(255),
total double,
PRIMARY KEY (order_id),
FOREIGN KEY ("cust_id") REFERENCES Customers("id")
```

```
);

DROP TABLE IF EXISTS "ItemsPurchased";
CREATE TABLE ItemsPurchased
(
order_id int NOT NULL,
product_id int NOT NULL,
quantity int,
price double,
total double,
PRIMARY KEY (order_id, product_id),
FOREIGN KEY ("order_id") REFERENCES Orders("order_id"),
FOREIGN KEY ("product_id") REFERENCES Products("id")
);
```

Exercise 2 - Part 3:

a. **Write a query to list the names of all products available and their quantities**

SELECT title, quantity FROM Products;

b. **Write a query to list all products that are categorized as 'Hard Drives' with quantities > 4**

SELECT title FROM Products
WHERE category = 'Hard Drives'
AND quantity > 4;

c. **Write a query to list customers who have made any purchase (HINT: Use aliasing to retrieve from multiple tables)**

SELECT cname
FROM Customers AS C, Orders AS O
WHERE O.cust_id = C.id;

d. **Write a query to retrieve the number of products stored as 'Motherboards'**

SELECT count (title) FROM Products
WHERE category = 'Motherboards';

e. **Write a query to retrieve the number of products stored as 'Motherboards' and supplied by 'Asus'**

SELECT count (title) FROM Products
WHERE category = 'Motherboards'
AND supplier = 'Asus';

f. Write a query to list the items purchased by customer 'Mary Brown' (HINT: Use aliasing to select from Customers, Orders, and ItemsPurchased tables).

SELECT title
FROM Products, Customers AS C, Orders AS O, ItemsPurchased AS I
WHERE C.cname = 'Mary Brown'
AND O.cust_id = C.id
AND I.order_id = O.order_id
AND I.product_id = Products.id;