DB Assignment 3

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# SQL Section

## 1. List names and sellers of products that are no longer available (quantity=0)

Query:

A black screen with white text

Description automatically generated

Explanation: This query retrieves the product names and their sellers for items that are out of stock (quantity is 0). It joins the products, sell, and merchants tables to fetch this information.

A black screen with white text

Description automatically generated

## 2. List names and descriptions of products that are not sold

Query:

A black background with white text

Description automatically generated

Explanation: This query lists all products that are not being sold by any merchant. It finds products that don’t have corresponding records in the sell table.

## A black screen with white text Description automatically generated

## 3. How many customers bought SATA drives but not any routers?

Query:A screen shot of a computer

Description automatically generated

Explanation: This query counts the number of unique customers who purchased SATA drives but did not purchase routers, by filtering the products table based on product names.

A black screen with white text

Description automatically generated

## 4. HP has a 20% sale on all its Networking products

Query:

A black screen with white text

Description automatically generated

Explanation: This query applies a 20% discount to all HP Networking products by updating the price in the sell table.



## 5. What did Uriel Whitney order from Acer?

Query:

A screen shot of a computer

Description automatically generated

Explanation: This query retrieves the names and prices of the products ordered by Uriel Whitney from Acer.

# A screen shot of a computer Description automatically generated

## 6. List the annual total sales for each company.

Query:

A screen shot of a computer

Description automatically generated

Explanation: The query calculates the total sales for each merchant by multiplying the price of products sold by the quantity, grouped by merchant and year.

A screenshot of a computer screen

Description automatically generated

## 7. Which company had the highest annual revenue and in what year?

Query:

A screen shot of a computer

Description automatically generated

This query finds the total sales for each merchant by multiplying the product price by the number of items available. It then lists the merchants by sales, showing the one with the highest sales for a year.

A black and white text

Description automatically generated

## 8. On average, what was the cheapest shipping method used ever?

Query:

A black screen with white text

Description automatically generated

Explanation: This query finds the average shipping cost for each shipping method. It lists them from the cheapest to the most expensive and shows the one with the lowest average cost.

A black and white screen with white text

Description automatically generated

## 9. What is the best sold ($) category for each company?

Query:

A screen shot of a computer code

Description automatically generated

Explanation: This query finds out which product category makes the most money for each company. It does this by multiplying the price of each product by the number of items available and adding up the total for each category. Then, it shows the results, starting with the category that made the most money.

A black and white table with white text

Description automatically generated

## 10. For each company, find out which customers have spent the most and the least amounts

Query:A screen shot of a computer program

Description automatically generated

Explanation: This query finds out how much each customer spent with each company. It adds up the price of products, multiplied by the number of items available, for each customer and company. Then it shows the results from the highest spender to the lowest.

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# ERD Diagram

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