**Project Submission**

**Course Title: Management Information Systems**

**Course Code: MIS 442**

**Section:**

**Project Title: McKesson’s Database Management**

**Company Name: McKesson**

**Submitted By:**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Sl. No** | **Student ID** | **Student Name** | **Position** | **Marks** |
| 1 | 2020877 | Iram Ahmed Dhrubo | Group Leader |  |
| 2 | 2022335 | Anika Tabassum | Member |  |
| 3 | 2020222 | Azwad Fawad Hasan | Member |  |
| 4 | 1731090 | Ragib Anjum Ruhin | Member |  |

**Submitted To:**

**Md. Aminul Islam, CSCA**

Lecturer

Department of Management Information Systems (MIS)

School of Business and Entrepreneurship (SBE)

Independent University, Bangladesh

**Date of Submission: August 09, 2022 at 9.00 PM**

**Description of Tables**

* **Branch:**

This table contains information about the branches of McKesson.

The entities in this table are: Branch\_ID, Branch\_Address, Phone\_Number, Branch\_Head\_Name, Branch\_Head\_ID, Inventory\_ID, No\_of\_employee, Opening\_Time, Closing\_Time and No\_of\_product.

The primary key of this table is Branch\_ID. The secondary key of this table is Inventory\_ID.

* **Customer:**

This table contains information about the customers (such as hospitals and medical centers) of McKesson.

The entities in this table are: Customer\_ID, Customer\_Name, Customer\_Phone\_Number, Customer\_Address, Branch\_ID and Customer\_Email.

The primary key of this table is Customer\_ID. The secondary key of this table is Branch\_ID.

* **Employee:**

This table contains information about the employees that work in McKesson.

The entities in this table are: Employee\_ID, Employee\_Name, Employee\_Phone\_Number, Employee\_Gender, Employee\_Age, Employee\_Email, Branch\_ID, Employee\_Salary and Employee\_Address.

The primary key of this table is Employee\_ID. The secondary key of this table is Branch\_ID.

* **Inventory:**

This table contains information about the inventory of McKesson.

The entities in this table are: Inventory\_ID, Product\_ID, Product\_Quantity, Product\_Remaining and Availability.

The primary key of this table is Inventory\_ID. The secondary key of this table is Product\_ID.

* **OrderTable:**

This table contains the order history of McKesson.

The entities in this table are: Order\_ID, Customer\_ID, Customer\_Name, Customer\_Address, Hotline, Product\_ID, Branch\_ID, No\_of\_Product\_Purchased and Total\_Amount.

The primary key of this table is Order\_ID. The secondary key of this table are Customer\_ID, Product\_ID and Branch\_ID.

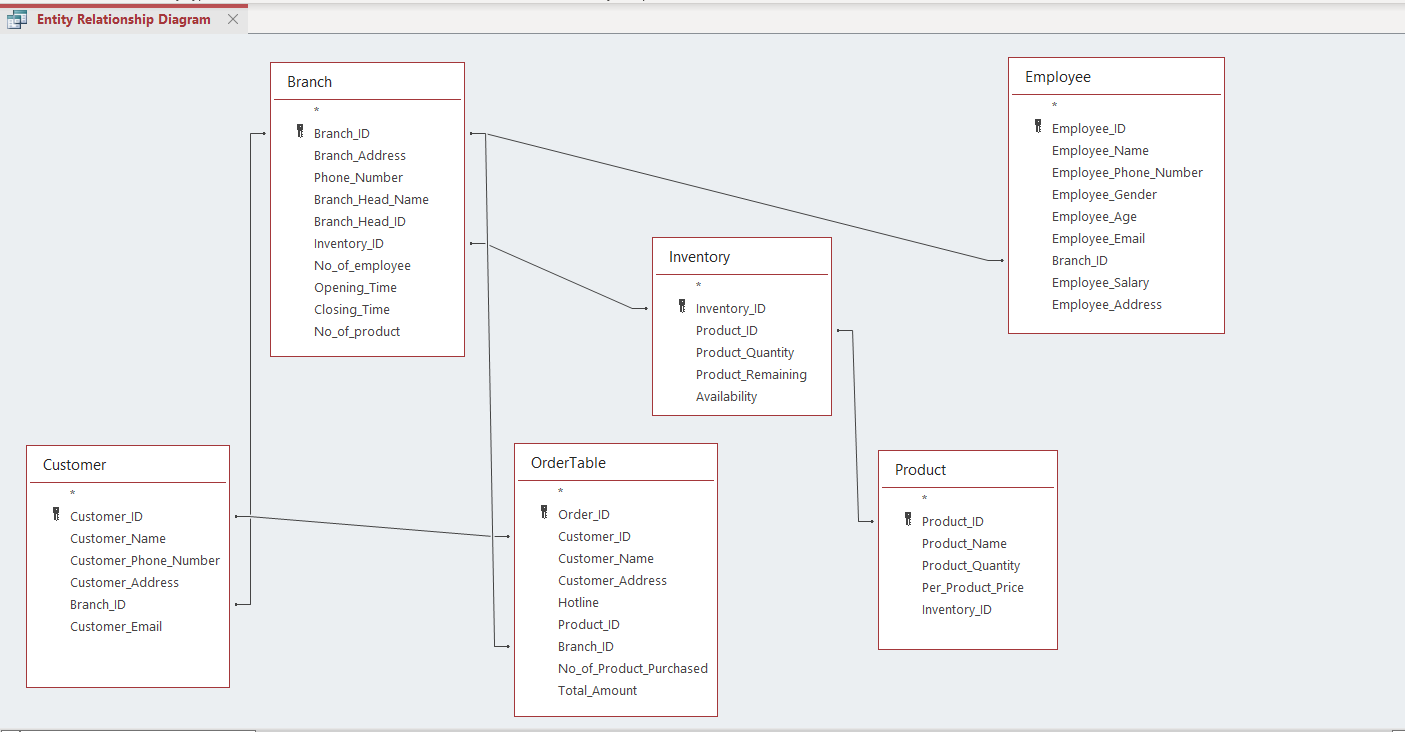
* **Product:**

This table contains information about the products of McKesson.

The entities in this table are: Product\_ID, Product\_Name, Product\_Quantity, Per\_Product\_Price and Inventory\_ID.

The primary key of this table is Product\_ID. The secondary key of this table is Inventory\_ID.

**Entity Relationship Diagram(ERD)**



**QUESTIONS**

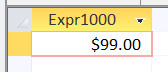
1. **Find the lowest per product price.**

SQL Code:

SELECT min(per\_product\_price)

FROM Product

OUTPUT:



1. **List the product name and ID of products whose quantity is less than 60.**

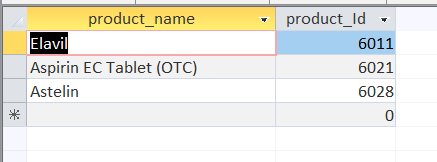
SQL Code:

SELECT product\_name, product\_Id

FROM Product

WHERE product\_quantity<60

OUTPUT:



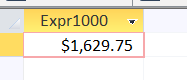
1. **What is the average per product price?**

SQL Code:

SELECT avg(per\_product\_price)

FROM Product

OUTPUT:



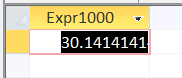
1. **Find the ratio of max product price with min product price.**

SQL Code:

SELECT max(per\_product\_price)/min(per\_product\_price)

FROM Product

OUTPUT:



1. **What is the name of product and price of product whose product Id is 6023?**

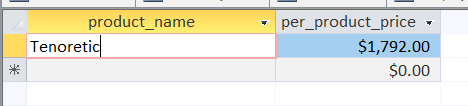
SQL Code:

SELECT product\_name, per\_product\_price

FROM Product

WHERE product\_Id = 6023

OUTPUT:



1. **How many customers did not provide their email address?**

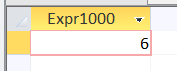
SQL Code:

SELECT count(customer\_Id)

FROM Customer

WHERE customer\_email is NULL

OUTPUT:



1. **Show the name and email of employees who are Male and they are below age 30.**

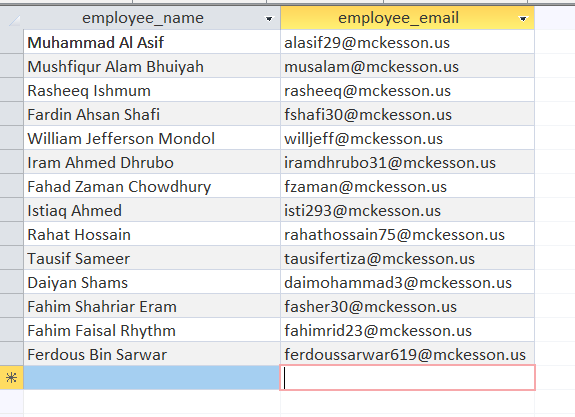
SQL Code:

SELECT employee\_name, employee\_email

FROM Employee

WHERE employee\_gender = "Male" AND employee\_age<30

OUTPUT:



1. **Show the Opening time and Closing time of the branches along with the branch ID who has number of products greater than or equal to 700.**

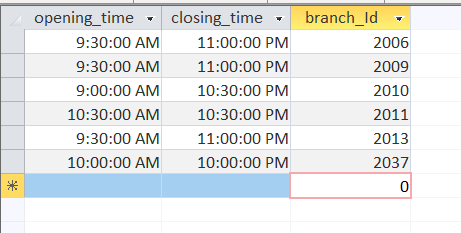
SQL Code:

SELECT opening\_time, closing\_time, branch\_Id

FROM Branch

WHERE no\_of\_product>=700

OUTPUT:



1. **Show the entire Branch Table.**

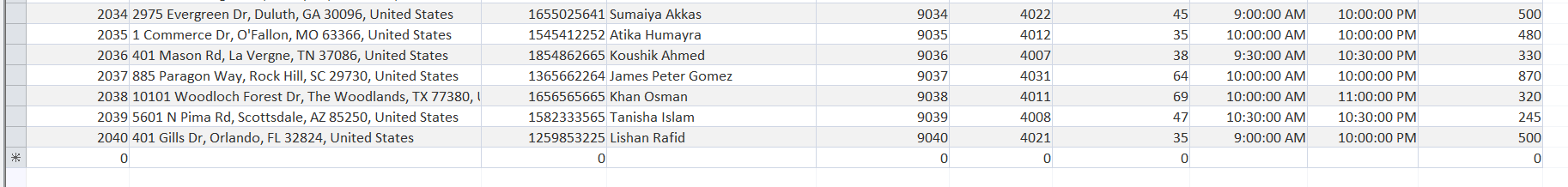
SQL Code:

SELECT \*

FROM Branch

OUTPUT:





1. **Show the name of customer who ordered maximum number of product.**

SQL Code:

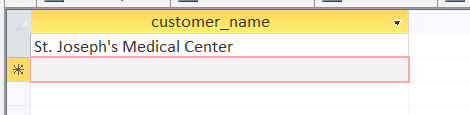
SELECT customer\_name

FROM ordertable

WHERE no\_of\_product\_purchased = (SELECT max(no\_of\_product\_purchased)

FROM ordertable)

OUTPUT:



1. **Determine if the product of product ID 6016 is available in the inventory, and if it is, then how many?**

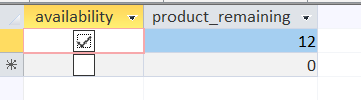
SQL Code:

SELECT availability, product\_remaining

FROM Inventory

WHERE product\_Id = 6016

OUTPUT:



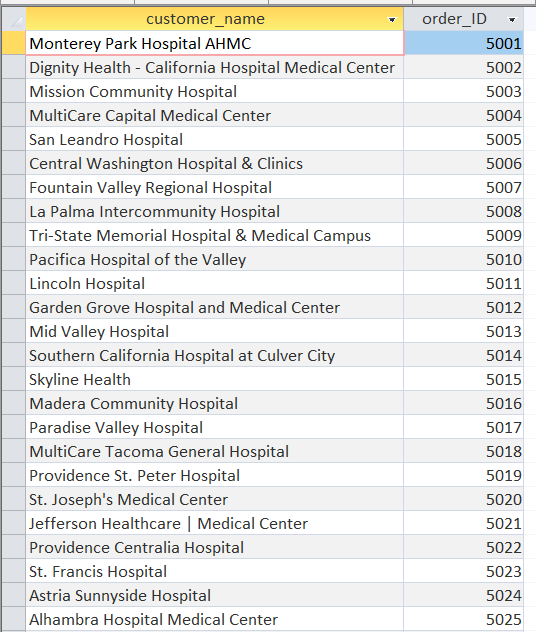
1. **Show the list of customer names and their order ID who ordered the product.**

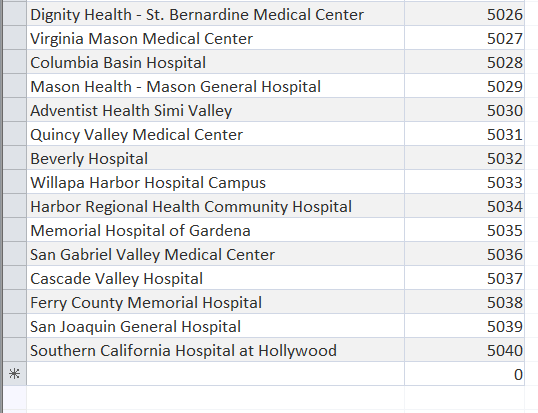
SQL Code:

SELECT customer\_name, order\_ID

FROM OrderTable

OUTPUT:





1. **List of employee names who work in branch ID 2022.**

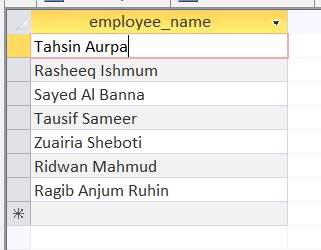
SQL Code:

SELECT employee\_name

FROM Employee

WHERE Branch\_Id = 2022

OUTPUT:



1. **Show the name and ID of the employees whose salary is greater than $500 and less than $600.**

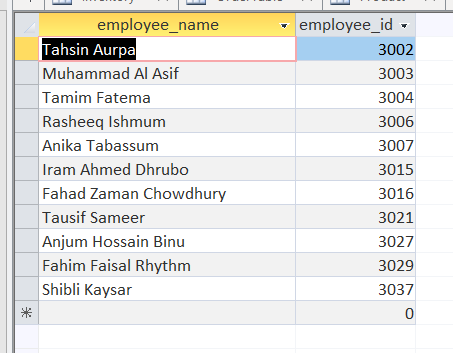
SQL Code:

SELECT employee\_name, employee\_id

FROM employee

WHERE employee\_salary>500 AND employee\_salary<600

OUTPUT:



1. **Arrange the entire Employee table by listing the employee names alphabetically.**

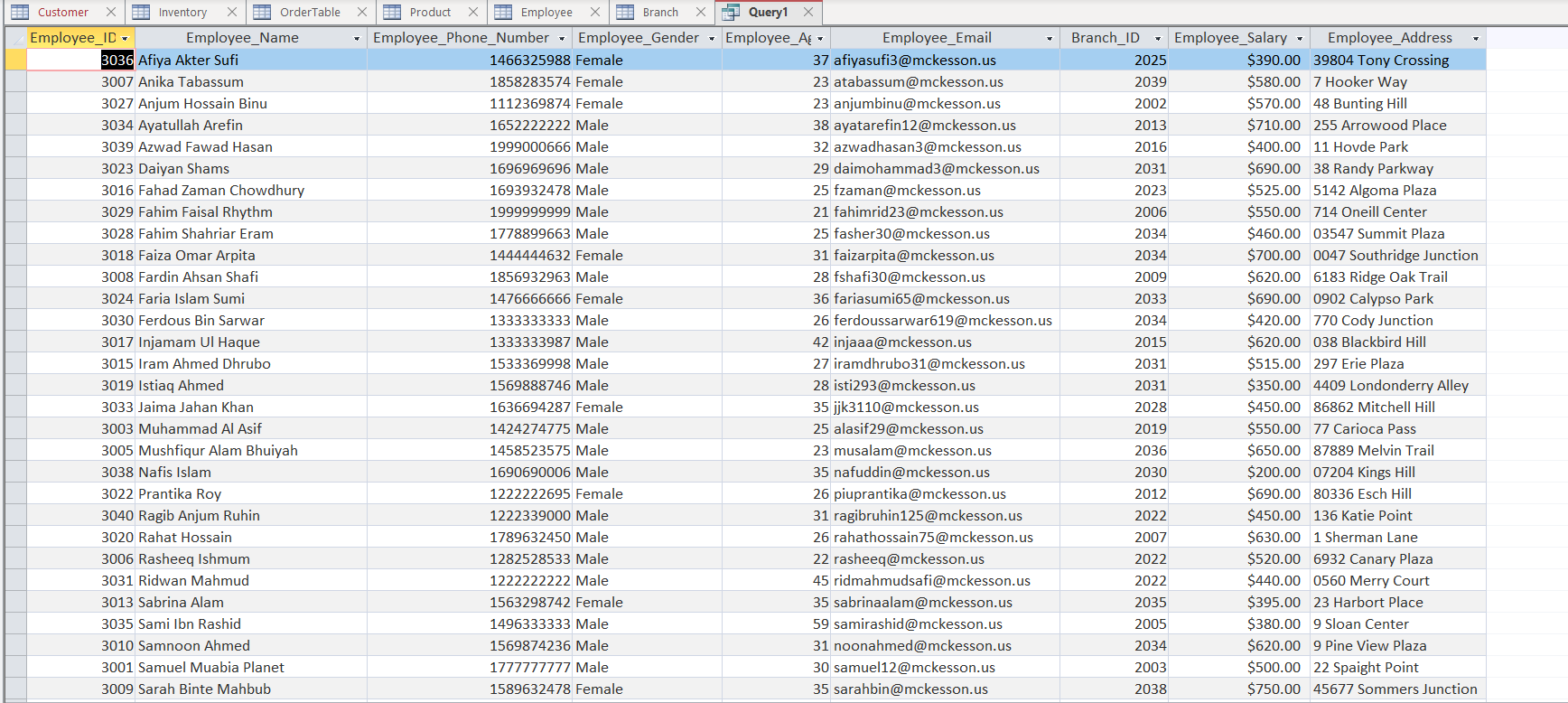
SQL Code:

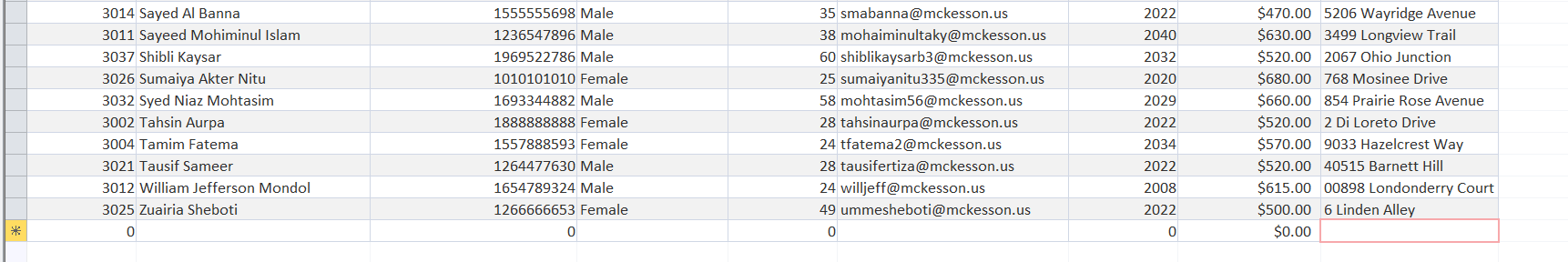
SELECT \*

FROM employee

ORDER BY employee\_name

OUTPUT:





1. **Show the list of product ID of the products which are available in the inventory.**

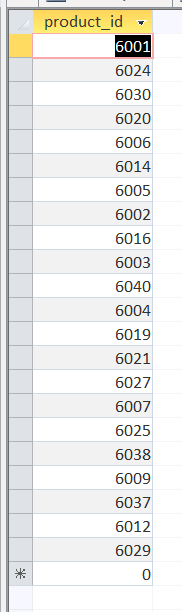
SQL Code:

SELECT product\_id

FROM inventory

Where availability = YES

OUTPUT:



1. **Calculate the total product price of product ID 6021.**

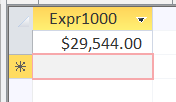
SQL Code:

SELECT (product\_quantity\*per\_product\_price)

FROM product

Where product\_id = 6021

OUTPUT:



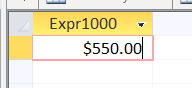
1. **Calculate the difference of employee salary of maximum salary holder and minimum salary holder.**

SQL Code:

SELECT max(employee\_salary)-min(employee\_salary)

FROM Employee

OUTPUT:



1. **Find the per unit cost of product whose Order ID is 5010.**

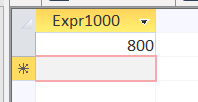
SQL Code:

SELECT (total\_amount/no\_of\_product\_purchased)

FROM OrderTable

Where order\_id = 5010

OUTPUT:



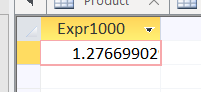
1. **Ratio of total number of product and number of products sold**

SQL Code:

SELECT sum(product\_quantity)/sum(product\_quantity-product\_remaining)

FROM inventory

OUTPUT:



1. **Arrange the name of the employee in descending order whose salary is less than average.**

SQL Code:

SELECT employee\_name

FROM employee

WHERE employee\_salary < (SELECT avg(employee\_salary)

FROM employee)

ORDER BY employee\_name DESC

OUTPUT:



1. **Show the names of customer who did not provide their physical address but provided email address.**

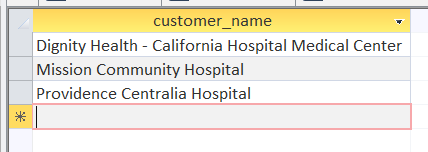
SQL Code:

SELECT customer\_name

FROM customer

WHERE customer\_address IS NULL AND customer\_email IS NOT NULL

OUTPUT:



1. **Find the name of the employees who are female and of age 26 and 36.**

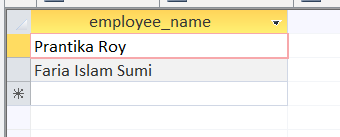
SQL Code:

SELECT employee\_name

FROM employee

WHERE employee\_gender = "Female" AND employee\_age = 26 OR employee\_age = 36

OUTPUT:



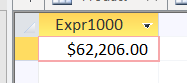
1. **Calculate the sum of per product price of all the products, excluding the product with the maximum per product price.**

SQL Code:

SELECT sum(per\_product\_price) - max(per\_product\_price)

FROM product

OUTPUT:



1. **Calculate the average number of employees for the branches where the ID of the Branch Head are 9011, 9017 and 9028.**

SQL Code:

SELECT avg(no\_of\_employee)

FROM branch

WHERE branch\_head\_Id = 9011 OR branch\_head\_Id = 9017 OR branch\_head\_Id = 9028

OUTPUT:

