

Exercise 05

1. Display the Supplier name and the Quantity sold:

```
SELECT SupplierName, SUM(Quantity) AS QuantitySold
FROM Sales
JOIN Suppliers ON Sales.SupplierID = Suppliers.SupplierID
GROUP BY SupplierName;
```

2. Display the Part name and Quantity sold:

```
SELECT PartName, SUM(Quantity) AS QuantitySold
FROM Sales
JOIN Parts ON Sales.PartID = Parts.PartID
GROUP BY PartName;
```

3. Display the Project name and Quantity sold:

```
SELECT ProjectName, SUM(Quantity) AS QuantitySold
FROM Sales
JOIN Projects ON Sales.ProjectID = Projects.ProjectID
GROUP BY ProjectName;
```

4. Display the Supplier name, Part name, Project name, and Quantity sold:

```
SELECT Suppliers.SupplierName, Parts.PartName, Projects.ProjectName, SUM(Sales.Quantity) AS QuantitySold
FROM Sales
JOIN Suppliers ON Sales.SupplierID = Suppliers.SupplierID
JOIN Parts ON Sales.PartID = Parts.PartID
JOIN Projects ON Sales.ProjectID = Projects.ProjectID
GROUP BY Suppliers.SupplierName, Parts.PartName, Projects.ProjectName;
```

5. Display the Supplier name supplying Parts to a Project in the same City:

```
SELECT DISTINCT Suppliers.SupplierName
FROM Sales
JOIN Suppliers ON Sales.SupplierID = Suppliers.SupplierID
JOIN Projects ON Sales.ProjectID = Projects.ProjectID
WHERE Suppliers.City = Projects.City;
```

6. Display the Part name that is 'Red' in color, and the Quantity sold:

```
SELECT Parts.PartName, SUM(Sales.Quantity) AS QuantitySold
FROM Sales
JOIN Parts ON Sales.PartID = Parts.PartID
WHERE Parts.Color = 'Red'
GROUP BY Parts.PartName;
```

7. Display all the Quantity sold by Suppliers with the Status = 20:

```
SELECT Suppliers.SupplierName, SUM(Sales.Quantity) AS QuantitySold
FROM Sales
JOIN Suppliers ON Sales.SupplierID = Suppliers.SupplierID
WHERE Suppliers.Status = 20
GROUP BY Suppliers.SupplierName;
```

8. Display all the Parts and Quantity with a Weight > 14:

```
SELECT Parts.PartName, SUM(Sales.Quantity) AS QuantitySold
FROM Sales
JOIN Parts ON Sales.PartID = Parts.PartID
WHERE Parts.Weight > 14
GROUP BY Parts.PartName;
```

9. Display all the Project names and City, which have bought more than 500 Parts:

```
SELECT Projects.ProjectName, Projects.City
FROM Sales
JOIN Projects ON Sales.ProjectID = Projects.ProjectID
GROUP BY Projects.ProjectName, Projects.City
HAVING SUM(Sales.Quantity) > 500;
```

10. Display all the Part names and Quantity sold that have a Weight less than 15:

```
SELECT Parts.PartName, SUM(Sales.Quantity) AS QuantitySold
FROM Sales
JOIN Parts ON Sales.PartID = Parts.PartID
WHERE Parts.Weight < 15
GROUP BY Parts.PartName;
```

11. Display all the Employee names and the name of their Managers:

```
SELECT E.EmployeeName AS EmployeeName, M.EmployeeName AS ManagerName
FROM Employees E
LEFT JOIN Employees M ON E.ManagerID = M.EmployeeID;
```