❖EXERCISE 5:

    1) Display the Supplier name and the Quantity sold.

⇒ SELECT S.Sname AS SupplierName, SPJ.Qty AS QuantitySold FROM S JOIN SPJ ON S.`S#` = SPJ.`S#` ORDER BY S.Sname;

    2) Display the Part name and Quantity sold.

⇒ SELECT P.Pname AS PartName,SPJ.Qty AS QuantitySold FROM P JOIN SPJ ON P.P# = SPJ.P# ORDER BY P.Pname;

    3) Display the Project name and Quantity sold.

⇒ SELECT J.Jname AS ProjectName, SPJ.Qty AS QuantitySold FROM J JOIN SPJ ON J.J# = SPJ.J# ORDER BY J.Jname;

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

⇒ SELECT `S`.`Sname` AS SupplierName,`P`.`Pname` AS PartName,`J`.`Jname` AS ProjectName,`SPJ`.`Qty` AS QuantitySold FROM `SPJ` JOIN `S` ON `SPJ`.`S#` = `S`.`S#`

JOIN `P` ON `SPJ`.`P#` = `P`.`P#` JOIN `J` ON `SPJ`.`J#` = `J`.`J#`

ORDER BY `S`.`Sname`, `P`.`Pname`, `J`.`Jname`;

    5) Display the Supplier name, Supplying Parts to a Project in the same City.

⇒ SELECT `S`.`Sname` AS SupplierName, `P`.`Pname` AS PartName, `J`.`Jname` AS ProjectNameFROM `SPJ`

JOIN `S` ON `SPJ`.`S#` = `S`.`S#`JOIN `P` ON `SPJ`.`P#` = `P`.`P#` JOIN `J` ON `SPJ`.`J#` = `J`.`J#` WHERE `S`.`City` = `J`.`City` ORDER BY `S`.`Sname`, `P`.`Pname`, `J`.`Jname`;

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

⇒ SELECT `P`.`Pname` AS PartName, `SPJ`.`Qty` AS QuantitySold FROM `P` JOIN `SPJ` ON `P`.`P#` = `SPJ`.`P#` WHERE `P`.`Color` = 'Red' ORDER BY `P`.`Pname`;

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

⇒ SELECT `S`.`Sname` AS SupplierName, `SPJ`.`Qty` AS QuantitySold FROM `S` JOIN `SPJ` ON `S`.`S#` = `SPJ`.`S#` WHERE `S`.`Status` = 20 ORDER BY `S`.`Sname`;

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

⇒ SELECT `P`.`Pname` AS PartName, `SPJ`.`Qty` AS QuantitySold FROM `P` JOIN `SPJ` ON `P`.`P#` = `SPJ`.`P#` WHERE `P`.`Weight` > 14 ORDER BY `P`.`Pname`;

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

⇒ SELECT `J`.`Jname` AS ProjectName, `J`.`City` AS ProjectCity, SUM(`SPJ`.`Qty`) AS TotalQuantity FROM `J`

JOIN `SPJ` ON `J`.`J#` = `SPJ`.`J#` GROUP BY `J`.`Jname`, `J`.`City` HAVING SUM(`SPJ`.`Qty`) > 500

ORDER BY `J`.`Jname`;

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

⇒ SELECT `P`.`Pname` AS PartName, `SPJ`.`Qty` AS QuantitySold FROM `P` JOIN `SPJ` ON `P`.`P#` = `SPJ`.`P#` WHERE `P`.`Weight` < 15 ORDER BY `P`.`Pname`;

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

⇒ SELECT E1.`EMPNAME` AS EmployeeName, E2.`EMPNAME` AS ManagerName FROM `SEMP` E1

LEFT JOIN `SEMP` E2 ON E1.`DEPTHEAD` = E2.`EMPNO`

ORDER BY E1.`EMPNAME`;