## **SQL Exercise 5**

1. Display the Supplier name and the Quantity sold.

Ans: -

mysql> SELECT s.SNAME AS Supplier\_Name, SUM(CAST(spj.QTY AS UNSIGNED)) AS Quantity\_Sold

- -> FROM s
- -> JOIN spj ON s.`S#` = spj.`S#`
- -> GROUP BY s.SNAME;

Supplier_Name   Quantity_Sold   +	<b>_</b>	L
Miller   1050     Davis   1300	Supplier_Name	Quantity_Sold
+	Miller   Davis	1050   1300

4 rows in set (0.01 sec)

2. Display the Part name and Quantity sold.

Ans: -

mysql> SELECT p.PNAME AS Part\_Name, SUM(CAST(spj.QTY AS UNSIGNED))
AS Quantity\_Sold

- -> FROM p
- -> JOIN spj ON p.`P#` = spj.`P#`
- -> GROUP BY p.PNAME;

+	++
Part_Name	Quantity_Sold
Spring   Washer   Stud   NULL   Shaft	150     250     300     6980     220
+	+

5 rows in set (0.00 sec)

3. Display the Project name and Quantity sold.

Ans: -

mysql> SELECT j.JNAME AS Project\_Name, SUM(CAST(spj.QTY AS UNSIGNED)) AS Quantity\_Sold

- -> FROM i
- -> JOIN spj ON j.`J#` = spj.`J#`
- -> GROUP BY j.JNAME;

+	·+
Project_Name	Quantity_Sold
+	<b></b>
Hermes	1150
NULL	6400
Athena	1100
Hercules	400
+	

4 rows in set (0.00 sec)

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

Ans: -

mysql> SELECT s.SNAME AS Supplier\_Name, p.PNAME AS Part\_Name,
j.JNAME AS Project\_Name,

- -> SUM(CAST(spj.QTY AS UNSIGNED)) AS Quantity Sold
- -> FROM s
- -> JOIN spj ON s.`S#` = spj.`S#`
- -> JOIN p ON p.`P#` = spj.`P#`
- -> JOIN j ON j.`J#` = spj.`J#`
- -> GROUP BY s.SNAME, p.PNAME, j.JNAME;

L Supplior Name	L Dart Namo	t L Drojost Namo	t
+		Project_Name 	Qualitity_30tu   
NULL	NULL	Hercules	180
NULL	NULL	NULL	2300
NULL	Shaft	Hercules	220
NULL	NULL	Hermes	300
Clark	Spring	Hermes	150
Clark	Spring	NULL	150
Clark	NULL	NULL	2000
Miller	Washer	NULL	250
Miller	NULL	Athena	800
Davis	Stud	Athena	300
Davis	NULL	NULL	1000
+		<b></b>	F

11 rows in set (0.00 sec)

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

Ans: -

mysql> SELECT s.SNAME AS Supplier\_Name

- -> FROM s
- -> JOIN spj ON s.`S#` = spj.`S#`

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-> JOIN p ON p.`P#` = spj.`P#`
   -> JOIN j ON j.`J#` = spj.`J#`
   -> WHERE s.CITY = j.CITY
   -> GROUP BY s.SNAME;
+----+
 Supplier Name |
+----+
| Clark
| Davis
2 rows in set (0.00 \text{ sec})
6. Display the Part name that is 'Red' is color, and the Quantity
sold.
Ans: -
mysql> SELECT p.PNAME AS Part Name, SUM(CAST(spj.QTY AS UNSIGNED))
AS Quantity Sold
   -> FROM p
   -> JOIN spj ON p.`P#` = spj.`P#`
   -> WHERE p.COLOR = 'Red'
   -> GROUP BY p.PNAME;
+----+
| Part_Name | Quantity_Sold |
| Washer |
                     250 l
+----+
1 row in set (0.00 sec)
7. Display all the Quantity sold by Suppliers with the Status = 20.
Ans: -
mysql> SELECT s.SNAME AS Supplier_Name, SUM(CAST(spj.QTY AS
UNSIGNED)) AS Quantity Sold
   -> FROM s
   -> JOIN spj ON s.`S#` = spj.`S#`
   -> WHERE s.STATUS = 20
   -> GROUP BY s.SNAME;
 -----+
 Supplier_Name | Quantity_Sold |
| Smith
                        1180 |
| Blake |
                        670 l
2 rows in set (0.00 sec)
```

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8. Display all the Parts and Quantity with a Weight > 14.
Ans: -
mysql> SELECT p.PNAME AS Part Name, SUM(CAST(spj.QTY AS UNSIGNED))
AS Quantity Sold
   -> FROM p
   -> JOIN spi ON p.`P#` = spj.`P#`
   -> WHERE CAST(p.WEIGHT AS UNSIGNED) > 14
   -> GROUP BY p.PNAME:
+----+
| Part Name | Quantity Sold |
+----+
| Stud | 300 |
+----+
1 row in set, 4 warnings (0.00 sec)
9. Display all the Project names and City, which has bought more than
500 Parts.
Ans: -
mysql> SELECT j.JNAME AS Project_Name, j.CITY AS Project_City,
           SUM(CAST(spj.QTY AS UNSIGNED)) AS Total Quantity
   -> FROM j
   -> JOIN spj ON j.`J#` = spj.`J#`
   -> GROUP BY j.JNAME, j.CITY
   -> HAVING Total_Quantity > 500;
+----+
| Project_Name | Project_City | Total_Quantity |
+----+
| Athena | Rome |
3 rows in set (0.00 \text{ sec})
10. Display all the Part names and Quantity sold that have a Weight
less than 15.
Ans: -
mysql> SELECT p.PNAME AS Part Name, SUM(CAST(spj.QTY AS UNSIGNED))
AS Quantity_Sold
   -> FROM p
   -> JOIN spj ON p.`P#` = spj.`P#`
   -> WHERE CAST(p.WEIGHT AS UNSIGNED) < 15
   -> GROUP BY p.PNAME;
+----+
| Part Name | Quantity Sold |
+----+
```

```
| Spring | 150 |
| Washer | 250 |
| Shaft | 220 |
+------
```

3 rows in set, 4 warnings (0.00 sec)

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

mysql> SELECT e.EMPNAME AS Employee\_Name, m.EMPNAME AS Manager\_Name

- -> FROM semp e
- -> LEFT JOIN semp m ON e.DEPTHEAD = m.EMPNO;

Employee_Name	+   Manager_Name   
SUNIL   HIREN   ALI   GEORGE	NULL   NULL   NULL   NULL
+	

4 rows in set (0.02 sec)