**Ques 1:** Write a Query That Finds the Number of Songs by Artist

**Artist Table**

|  |  |
| --- | --- |
| **id** | **artist\_name** |
| 1 | Prince |
| 2 | Jimi Hendrix |
| 3 | Santana |
| 4 | Otis Redding |
| 5 | Lou Rawls |

**Song table**

|  |  |  |
| --- | --- | --- |
| **id** | **artist\_id** | **song\_title** |
| 1 | 1 | Purple Rain |
| 2 | 2 | Purple Haze |
| 3 | 3 | Europa |
| 4 | 1 | Cream |
| 5 | 1 | Bambi |
| 6 | 1 | Why You Wanna Treat Me So Bad? |
| 7 | 2 | Spanish Castle Magic |
| 8 | 3 | Taboo |
| 9 | 3 | Incident at Neshabur |
| 10 | 3 | Flor D' Luna |

Ques 2: Show the total quantity by product category, but only for the individual products whose quantity is above the average quantity for all products.

Product Table:

|  |  |  |  |
| --- | --- | --- | --- |
| **id** | **product\_name** | **quantity** | **product\_category** |
| 1 | Apple MacBook Air (2020) MGN63N/A Space Gray | 319 | Laptop |
| 2 | Fairphone 4 128GB Green 5G | 208 | Mobile phone |
| 3 | Apple iMac 24" (2021) 16GB/512GB Apple M1 with 8 core GPU Silver | 157 | Desktop |
| 4 | HP 17-cp0971nd | 487 | Laptop |
| 5 | Huawei P30 Pro - 128GB - Blue | 148 | Mobile phone |
| 6 | Lenovo Legion T5 - AMD Ryzen 9 - 32 GB - 2TB HDD+SSD - Windows 10 Home PC | 514 | Desktop |
| 7 | Toshiba Dynabook Satellite Pro E10-S-101 Notebook | 207 | Laptop |
| 8 | Samsung Galaxy S23 5G - 256GB - Phantom Black | 56 | Mobile phone |
| 9 | Intel Compleet PC | Intel Core i7-10700 | 459 | Desktop |

Ques 3: Write a Query to Return Salespersons and Their Monthly Sales Data Above Their Personal Sales Average.

**Ques 4:** Write the query to find the Salesperson with 3rd highest monthly\_sales in the below salesperson tables.

**Table salesperson**:

|  |  |  |
| --- | --- | --- |
| **id** | **first\_name** | **last\_name** |
| 1 | Nina | Lee |
| 2 | Carolina | Green |
| 3 | Mick | Johnson |

**Table Sales:**

|  |  |  |  |
| --- | --- | --- | --- |
| **id** | **salesperson\_id** | **monthly\_sales** | **period** |
| 1 | 1 | 1,200.47 | 2021\_10 |
| 2 | 2 | 5,487.22 | 2021\_10 |
| 3 | 3 | 700.47 | 2021\_10 |
| 4 | 1 | 15,747.54 | 2021\_11 |
| 5 | 2 | 16,700.87 | 2021\_11 |
| 5 | 3 | 14,322.87 | 2021\_11 |
| 6 | 1 | 9,745.55 | 2021\_12 |
| 7 | 2 | 9,600.97 | 2021\_12 |
| 8 | 3 | 6,749.58 | 2021\_12 |

**Ques 5:** SQL Query to fetch records that are present in one table but not in another table. Data given below

**Ques 6:** SQL query to fetch all the employees who are not working on any project.

**Ques 7:** Fetch all employees from EmployeeDetails who have a salary record in EmployeeSalary.

**EmployeeDetails**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **EmpId** | **FullName** | **ManagerId** | **DateOfJoining** | **City** |
| 121 | John Snow | 321 | 01/31/2019 | Toronto |
| 321 | Walter White | 986 | 01/30/2020 | California |
| 421 | Kuldeep Rana | 876 | 27-11-2021 | New Delhi |
| 561 | Rajesh | 878 | 13-09-2020 | Bangalore |
| 675 | Munjal | 876 | 12-10-2019 | New Delhi |

**EmployeeSalary:**

|  |  |  |  |
| --- | --- | --- | --- |
| **EmpId** | **Project** | **Salary** | **Variable** |
| 121 | P1 | 8000 | 500 |
| 321 | P2 | 10000 | 1000 |
| 421 | P1 | 12000 | 0 |