**Question 1:**

Show the names of customers whose **contact names** contain **only alphabets** and whose **addresses** contain the word **'Street'**.

**Solution:**

SELECT CustomerName, ContactName, Address

FROM customers

WHERE ContactName REGEXP '^[A-Za-z]+$' AND Address REGEXP 'Street';

**Interpretation:**  
This query retrieves the **CustomerName**, **ContactName**, and **Address** of customers where:

* The **ContactName** contains only alphabetic characters, validated using **REGEXP '^[A-Za-z]+$'**.
* The **Address** contains the word **'Street'**, matched using **REGEXP 'Street'**.

The **^** and **$** anchors ensure the entire **ContactName** consists only of alphabetic characters.

**Question 2:**

Show the first names and last names of employees whose **last name** contains **only numbers** and whose **salary** is greater than 50,000.

**Solution:**

SELECT FirstName, LastName, Salary

FROM persons

WHERE LastName REGEXP '^[0-9]+$' AND Salary > 50000;

**Interpretation:**  
This query retrieves the **FirstName**, **LastName**, and **Salary** of employees where:

* The **LastName** contains only numeric characters, validated using **REGEXP '^[0-9]+$'**.
* The **Salary** is greater than **50,000**.

The **^** and **$** ensure the **LastName** consists solely of numbers.

**Question 3:**

Show the names of products whose **names** contain **two or more words** and whose **price** is between 100 and 500.

**Solution:**

SELECT ProductName, Price

FROM products

WHERE ProductName REGEXP '\\s' AND Price BETWEEN 100 AND 500;

**Interpretation:**  
This query retrieves the **ProductName** and **Price** of products where:

* The **ProductName** contains at least one space (i.e., has more than one word), checked using **REGEXP '\s'**.
* The **Price** is between **100** and **500**, filtered using the **BETWEEN** operator.

The **\s** represents a space character, ensuring the **ProductName** contains multiple words.

**Question 4:**

Show the names and ages of employees whose **first name** starts with **'R'** and whose **age** is less than **30**.

**Solution:**

SELECT FirstName, Age

FROM persons

WHERE FirstName LIKE 'R%' AND Age < 30;

**Interpretation:**  
This query retrieves the **FirstName** and **Age** of employees where:

* The **FirstName** starts with the letter **'R'**, matched using the **LIKE 'R%'** operator.
* The **Age** is less than **30**.

The **LIKE** operator ensures that the **FirstName** starts with **'R'**, and the **Age** condition filters employees under 30 years old.

**Question 5:**

Show the names of customers who live in **either Dhaka or Sylhet** and have a **postal code** greater than **1200**.

**Solution:**

SELECT CustomerName, City, PostalCode

FROM customers

WHERE (City = 'Dhaka' OR City = 'Sylhet') AND PostalCode > 1200;

**Interpretation:**  
This query retrieves the **CustomerName**, **City**, and **PostalCode** of customers who:

* Live in either **Dhaka** or **Sylhet**, specified using the **OR** operator.
* Have a **PostalCode** greater than **1200**.

The **AND** operator ensures that both conditions must be satisfied for the selected records.