Lab 9: Create a database with a table named student with suitable attributes and insert 10 records. Perform matching operations using the LIKE keyword, and use all the given character functions: substring, concate, length, upper, lower, trim, ltrim, rtrim, char, ascii, and charindex.

Source code:

```
CREATE DATABASE SchoolDB;

USE SchoolDB;


CREATE TABLE student (
   roll_no INT PRIMARY KEY,
   NAME VARCHAR(50),
   address VARCHAR(100),
   faculty VARCHAR(30)
);


INSERT INTO student (roll_no, NAME, address, faculty) VALUES
(1, 'Aarav Sharma', 'Kathmandu', 'Science'),
(2, 'Sita Adhikari', 'Lalitpur', 'Management'),
(3, 'Binod Khadka', 'Bhaktapur', 'Humanities'),
(4, 'Pratiksha Koirala', 'Pokhara', 'Education'),
(5, 'Ramesh Thapa', 'Butwal', 'Science'),
(6, 'Sunita Bhandari', 'Chitwan', 'Management'),
(7, 'Dipesh Neupane', 'Biratnagar', 'Humanities'),
(8, 'Kritika Gurung', 'Dharan', 'Education'),
(9, 'Milan Shrestha', 'Hetauda', 'Science'),
(10, 'Nirajan Acharya', 'Janakpur', 'Management');


SELECT * FROM student WHERE NAME LIKE 'S%';
```

roll_no	name	address	faculty
2	Sita Adhikari	Lalitpur	Management
6	Sunita Bhandari	Chitwan	Management

SELECT * FROM student WHERE faculty LIKE '%e';

roll_no	name	address	faculty
1	Aarav Sharma	Kathmandu	Science
5	Ramesh Thapa	Butwal	Science
9	Milan Shrestha	Hetauda	Science

SELECT * FROM student WHERE NAME LIKE '%sh%';

roll_no	name	address	faculty
1	Aarav Sharma	Kathmandu	Science
4	Pratiksha Koirala	Pokhara	Education
5	Ramesh Thapa	Butwal	Science
7	Dipesh Neupane	Biratnagar	Humanities
9	Milan Shrestha	Hetauda	Science

SELECT NAME, SUBSTRING(NAME, 1, 5) AS short_name FROM student;

name	short_name
Aarav Sharma	Aarav
Sita Adhikari	Sita
Binod Khadka	Binod
Pratiksha Koirala	Prati
Ramesh Thapa	Rames
Sunita Bhandari	Sunit
Dipesh Neupane	Dipes
Kritika Gurung	Kriti
Milan Shrestha	Milan
Nirajan Acharya	Niraj

SELECT CONCAT(NAME, ' - ', faculty) AS name_faculty FROM student;

name_faculty
Aarav Sharma - Science
Sita Adhikari - Management
Binod Khadka - Humanities
Pratiksha Koirala - Education
Ramesh Thapa - Science
Sunita Bhandari - Management
Dipesh Neupane - Humanities
Kritika Gurung - Education
Milan Shrestha - Science
Nirajan Acharya - Management

SELECT NAME, LENGTH(NAME) AS name_length FROM student;

name	name_length
Aarav Sharma	12
Sita Adhikari	13
Binod Khadka	12
Pratiksha Koirala	17
Ramesh Thapa	12
Sunita Bhandari	15
Dipesh Neupane	14
Kritika Gurung	14
Milan Shrestha	14
Nirajan Acharya	15

SELECT NAME, UPPER(NAME) AS upper_name FROM student;

name	upper_name
Aarav Sharma	AARAV SHARMA
Sita Adhikari	SITA ADHIKARI
Binod Khadka	BINOD KHADKA
Pratiksha Koirala	PRATIKSHA KOIRALA
Ramesh Thapa	RAMESH THAPA
Sunita Bhandari	SUNITA BHANDARI
Dipesh Neupane	DIPESH NEUPANE
Kritika Gurung	KRITIKA GURUNG
Milan Shrestha	MILAN SHRESTHA
Nirajan Acharya	NIRAJAN ACHARYA

SELECT NAME, LOWER(NAME) AS lower_name FROM student;

name	lower_name
Aarav Sharma	aarav sharma
Sita Adhikari	sita adhikari
Binod Khadka	binod khadka
Pratiksha Koirala	pratiksha koirala
Ramesh Thapa	ramesh thapa
Sunita Bhandari	sunita bhandari
Dipesh Neupane	dipesh neupane
Kritika Gurung	kritika gurung
Milan Shrestha	milan shrestha
Nirajan Acharya	nirajan acharya

SELECT TRIM(' Aarav Sharma ') AS trimmed_name;

trimmed_name
Aarav Sharma

SELECT LTRIM('   Aarav') AS left_trimmed;

left_trimmed
Aarav

SELECT RTRIM('Aarav   ') AS right_trimmed;

right_trimmed
Aarav

SELECT NAME, ASCII(SUBSTRING(NAME, 1, 1)) AS ascii_value FROM student;

name	ascii_value
Aarav Sharma	65
Sita Adhikari	83
Binod Khadka	66
Pratiksha Koirala	80
Ramesh Thapa	82
Sunita Bhandari	83
Dipesh Neupane	68
Kritika Gurung	75
Milan Shrestha	77
Nirajan Acharya	78

SELECT CHAR(65) AS char_A;

char_A
A

SELECT NAME, CHARINDEX('a', NAME) AS position_of_a FROM student;