SCS 1203 Database I

LAB SESSION 2

Task 1

- Create a database using your registration number.

  Ex : 2018_CS_001

Task 2

- Create "*student_information*" table in your database with the given structure.

Column	Data type	Extra
std_id	INT	AUTO_INCREMENT , PRIMARY KEY
std_firstName	VARCHAR(255)	
std_lastName	VARCHAR(255)	
std_nic	VARCHAR(12)	
std_degree	CHAR(2)	
std_zScore	DECIMAL(5,4)	
std_city	VARCHAR(255)	
std_gender	CHAR(1)	
std_dob	DATE	

Task 3

- Insert your peers data in to "***student_information***" table.

Task 4

- Show all the data stored in your "***student_information***" table.

The SQL WHERE Clause

- The WHERE clause is used to filter records.

- The WHERE clause is used to extract only those records that fulfill a specified condition.

- WHERE Syntax :

SELECT *column1, column2, ...*
FROM *table_name*
WHERE *condition*;

The SQL WHERE Clause - Examples

SELECT * FROM *student_information*

WHERE **std_firstName**= '**Nimal**';

SELECT * FROM *student_information*

WHERE **std_age** > 20;

SELECT **std_firstName , std_lastName** FROM *student_information*

WHERE **std_city**= '**Colombo**';

Operators in The WHERE Clause

Operator	Description
=	Equal
<>	Not equal. **Note:** In some versions of SQL this operator may be written as !=
>	Greater than
<	Less than
>=	Greater than or equal
<=	Less than or equal
BETWEEN	Between a certain range
LIKE	Search for a pattern
IN	To specify multiple possible values for a column

Task 5

1. List all the details of female students stored in your table.

2. List all the details of male students stored in your table.

3. List all the details of students who are studying Computer Science.

4. List all the details of students who are studying Information Systems.

5. List all the details of students who are having a zScore greater than 1.5000

6. List all the details of students who are having a zScore lesser than 1.5000

Task 5

7. List first name, last name and birth date of students who are studying Computer Science.

8. List first name, last name ,degree and gender of students who are living in the Colombo city.

Answers

Task 1

CREATE DATABASE 2017_CS_001;

Task 2

CREATE TABLE student_information (

std_id **int AUTO_INCREMENT**,

std_firstName **VARCHAR(255),**

std_lastName **VARCHAR(255),**

std_nic **VARCHAR(12),**

std_degree **CHAR(2),**

std_zScore **DECIMAL(4,4),**

std_city **VARCHAR(255),**

std_gender **CHAR(1),**

std_dob **DATE,**

PRIMARY KEY (std_id)) ;

Answers

Task 3

INSERT INTO *student_information (*

std_firstName,std_lastName**,**std_nic,std_degree,std_zScore,std_city,std_gender,std_dob)

VALUES ('Amal','Perera','948590000V','CS',1.2001,'Matara','M ','1994-09-09');

Answers

Task 4

SELECT * FROM *student_information ;*