

Objective: At the end of this lab session you will get a basic knowledge about the INSERT, UPDATE and DELETE commands. You will be able to INSERT values to the created table, UPDATE values of a table and DELETE values from a table.

Insert, Update and Delete commands

Section 1

INSERT Command:

The INSERT INTO statement is used to insert new records in a table.

Syntax for INSERT

It is possible to write the INSERT INTO statement in two ways.

The first way specifies both the column names and the values to be inserted:

```
INSERT INTO <table_name> (column1_name, column2_name, ...)  
VALUES (value1, value2,...)
```

If you are adding values for all the columns of the table, you do not need to specify the column names in the SQL query.

However, make sure the order of the values is in the same order as the columns in the table.

The INSERT INTO syntax would be as follows:

```
INSERT INTO <table_name>  
VALUES (value1, value2, ...)
```

UPDATE Command:

The UPDATE statement is used to modify the existing records in a table.

Syntax for UPDATE

```
UPDATE <table_name>  
SET <column1_name> = <value1>, <column2_name> = <value2>, ...  
WHERE <condition>
```

Note: Be careful when updating records in a table! Notice the WHERE clause in the UPDATE statement. The WHERE clause specifies which record(s) that should be updated. If you omit the WHERE clause, all records in the table will be updated!

DELETE Command:

The DELETE statement is used to delete existing records in a table.

Syntax for DELETE

```
DELETE FROM <table_name>  
WHERE <condition>
```

Note: Be careful when deleting records in a table! Notice the WHERE clause in the DELETE statement. The WHERE clause specifies which record(s) should be deleted. If you omit the WHERE clause, all records in the table will be deleted!

Section 2

1. Insert the following data using INSERT SQL Statement for the tables you created in Lab sheet 8.

(Hint: Here also you have to consider about the foreign keys, you can insert the values according to the order of table creation. Otherwise you may get errors)

Course

CID	Cname	C_Description	C_fee
IT	Information Technology	The programme is designed for technically focused students who capabilities in programming	175000
SE	Software Engineering	Software engineering is the discipline of designing, creating and maintaining	185000
CSNE	Computer Systems And Network Engineering	The programme aims to provide students with the knowledge, skills, planning, and designing	155000
DS	Data Scinece	The meticulous curriculum focuses on the fundamentals of computer science, statistics, and applied mathematics	170000

Student

SID	Sname	Address	Dob	NIC	CID
CN18384756	Kamal	No122, Rose street, matale	1994-05-02	946785467v	CSNE
DS18234876	Pubudu	No678 , 3rd new lane, Maharahgama	1994-11-08	948763759v	DS
IT18234568	Ann	No12, Kings street, colombo	1996-11-11	961234587v	IT
SE19238567	Malith	No08, st.thomas street, Kandy	1992-12-20	922356785v	SE

Module

Mcode	Mname	M_Description	NoOfCredits
SE3050	User Experience Engineering	subject under SE	3
IT1010	Introduction to Programming	subject under IT	4
IT2050	Computer Networks	subject under IT	4
IT3051	Fundamentals of Data Mining	subject under DS	4

Offers

CID	Mcode	Accademic_year	Semester
SE	SE3050	Y3	2
IT	IT1010	Y1	2
IT	IT2050	Y2	1
DS	IT3051	Y3	2

- Update the address of Ann as No15,Gamunupura,New Kandy Rd,Malabe
- Remove the 'User Experience Engineering' module from the Module table since it is no longer consider as a module of the degree program.