Module 6: MySQL Manipulate Data

	Using this option if the new row we INSERT causes a duplicate value in the UNIQUE or PRIMARY index, then MySQL performs an update to the old row based on the new values. The syntax is: INSERT INTO table(column_list)
	□ VALUES(value_list)
	☐ ON DUPLICATE KEY UPDATE column_1 = new_value_1, column_2
	= new_value_2,;
	TE Statement: UPDATE statement is used to modify one or more rows in a table.
	The syntax is: → □ UPDATE table_name
	□ SET
	□ [WHERE
□ □ UPDA □	In the SET clause we name each column and its new value. In the WHERE clause we specify the conditions that must be met for a row to be updated. If the WHERE clause is omitted then all rows would be updated. TE with ORDER BY and LIMIT: UPDATE statement can also be used with Order by and Limit clauses. The syntax is: UPDATE table_name SET column_name_1 = expression_1 [, column_name_2 = expression_2] [WHERE search_condition] [ORDER BY expression [ASC DESC]] [LIMIT number_rows]

DELETE Statement: ☐ DELETE statement is used to delete one or more rows from the table specified in the DELETE clause. ☐ The syntax is: ☐ DELETE
☐ [WHERE
 In the WHERE clause we specify the conditions that must be met for a row to be deleted. A foreign key constraint may prevent us from deleting a row. In such case we can only delete the row if we delete all child rows for that row first.
DELETE with ORDER BY and LIMIT: DELETE statement can also be used with Order by and Limit clauses. The syntax is:
 □ DELETE from table_name □ [WHERE search_condition] □ [ORDER BY expression [ASC DESC]] □ [LIMIT number_rows]
ORDER BY is used with LIMIT to sort the records and limiting the number of records
to be deleted.
REPLACE Statement: Replace statement is used to The syntax of REPLACE statement is: REPLACE [INTO] table_name [(column_list)]
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 Replace statement is used to The syntax of REPLACE statement is: REPLACE [INTO] table_name [(column_list)] VALUES (expr_1 [, expr_2]) [expr_1 [, expr_2]] If table contains unique valued index and if we try to INSERT a record containing a key value that already exist , a duplication-key violation error occurs and the row is not inserted. What if we want the new record to take priority over existing one? We can remove the existing record with DELETE and then use INSERT to add the new record. REPLACE is like INSERT except that it deletes old record when duplicate unique key value is present in a new record.

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Module 6 MCQ:
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Consider following table description for Q1 to Q6
```

```
Create Table: CREATE TABLE `st11` (
    `rno` int(11) NOT NULL AUTO_INCREMENT,
    `name` varchar(10) DEFAULT NULL,
    PRIMARY KEY (`rno`)
```

Q1) What is the result when following statement is executed assuming table does not have any row?

```
insert into st11 () values ();
```

Options:

A. error B. it inserts 1 record (Null, Null)
C. it inserts 1 record (1, Null)
D. it inserts 1 record (0, Null)

Solution:

Q2) What is the result when following statement is executed assuming table does not have any row?

insert into st11 set rno = 10;

Options:

A. error
B. it inserts 1 record (10, 10)
C. it inserts 1 record (1, Null)
D. it inserts 1 record (10, Null)

Solution:

3) What is the result when following statement is executed assuming table does not have any row?

insert into st11 (10, 'kamal');

Options:

A. error
B. it inserts 1 record (10, 'kamal')
C. it inserts 1 record (1, Null)
D. it inserts 1 record ('kamal', 10)

Solution:

Q4) What is the result when following statement is executed assuming table does not have any row?

insert into st11 value('kamal', 20);

Options:

A. it inserts 1 record (20, 'kamal')

B. it inserts 1 record ('kamal', 20)

C. error.

D. it inserts 1 record (20, null)

Solution:

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MySQL Notes prepared by Kamal Sir

Q5) What is the result when following statement is executed assuming table does not have any row?

insert into st11 values(10, 'kamal', 11, 'vimal');

Options:

- A. it inserts 2 records (10, 'kamal') and (11, 'vimal')
- B. it inserts 1 record (10, 'kamal')
- C. it inserts 1 record (11, 'vimal')
- D. error.

Solution:

Q6) What is the result when following statement is executed assuming table does not have any row?

insert into st11 values(10, 'kamal'), (10, 'vimal');

Options:

- A. it inserts 2 records (10, 'kamal') and (11, 'vimal')
- B. it inserts 1 record (10, 'kamal')
- C. it inserts 1 record (10, 'vimal')
- D. error.

Solution:

Q7) How can you change the primary key value of a row?

Options:

- A. You cannot change the primary key value.
- B. Change it with a simple UPDATE statement.
- C. The row must be removed with a DELETE and reentered with an INSERT KEY.
- D. This is only possible using UPDATE PRIMARY KEY statement.

Solution:

Q8) Wrong statement about UPDATE keyword?

Options:

- A. If WHERE clause in missing in statement the all records will be updated.
- B. Only one record can be updated at a time using WHERE clause
- C. Multiple records can be updated at a time using WHERE clause
- D. None is wrong statement

Solution:

Q9) What will be the result?

UPDATE employees SET salary=salary * 1.1;

Options:

- A. The statement will fail because there is no WHERE clause to restrict the rows affected.
- B. The first row in the table will be updated.
- C. There will be an error if any row has its SALARY column NULL.
- D. Every row will have SALARY incremented by 10 percent, unless SALARY was NULL.

Solution:

Q10) What is the result of following assuming table as 4 records in emp table:

delete * from emp;

Options:

- A. table will have 0 records.
- B. error.
- C. table will have 4 records as delete did not match any rows.
- D. table will have 1 blank record.

Solution:

Q11) Which of these commands will remove every row in a table while keeping its structure intact? Select two

Options:

- A. A DELETE command with no WHERE clause
- B. A DROP TABLE command
- C. A TRUNCATE command
- D. An UPDATE command, setting every column to NULL and with no WHERE clause

Solution: