**8.Write a Program to do Replication in a Database**

CREATE DATABASE IF NOT EXISTS my\_database;

mysql> USE my\_database;

Database changed

mysql> CREATE TABLE IF NOT EXISTS my\_table (

-> id INT AUTO\_INCREMENT PRIMARY KEY,

-> name VARCHAR(50),

-> age INT

-> );

mysql> INSERT INTO my\_table (name, age) VALUES ('Alice', 25);

mysql> INSERT INTO my\_table (name, age) VALUES ('Bob', 30);

mysql> select \* from my\_table;

+----+-------+------+

| id | name | age |

+----+-------+------+

| 2 | Alice | 25 |

| 3 | Bob | 30 |

+----+-------+------+

mysql> UPDATE my\_table SET age = 35 WHERE name = 'Bob';

Rows matched: 1 Changed: 1 Warnings: 0

mysql> select \* from my\_table;

+----+-------+------+

| id | name | age |

+----+-------+------+

| 2 | Alice | 25 |

| 3 | Bob | 35 |

+----+-------+------+

mysql> DELETE FROM my\_table WHERE name = 'Alice';

mysql> select \* from my\_table;

+----+------+------+

| id | name | age |

+----+------+------+

| 3 | Bob | 35 |

+----+------+------+

mysql> SHOW MASTER STATUS;

Empty set (0.00 sec)

mysql> select \* from my\_table;

+----+------+------+

| id | name | age |

+----+------+------+

| 3 | Bob | 35 |

+----+------+------+

1 row in set (0.00 sec)

mysql> SHOW SLAVE STATUS;

+----------------------+-----------------------+------------------+-------------+---------------+------------------+---------------------+----------------------------------+---------------+-----------------------+------------------+-------------------+-----------------+---------------------+--------------------+------------------------+-------------------------+-----------------------------+------------+------------+--------------+---------------------+-----------------+-----------------+----------------+---------------+--------------------+--------------------+--------------------+-----------------+-------------------+----------------+-----------------------+-------------------------------+---------------+--------------------------------------------------------------------------------------------------------+----------------+----------------+-----------------------------+------------------+-------------+--------------------------------------------------------+-----------+---------------------+--------------------------------------------------------+--------------------+-------------+-------------------------+--------------------------+----------------+--------------------+--------------------+-------------------+---------------+----------------------+--------------+--------------------+

| Slave\_IO\_State | Master\_Host | Master\_User | Master\_Port | Connect\_Retry | Master\_Log\_File | Read\_Master\_Log\_Pos | Relay\_Log\_File | Relay\_Log\_Pos | Relay\_Master\_Log\_File | Slave\_IO\_Running | Slave\_SQL\_Running | Replicate\_Do\_DB | Replicate\_Ignore\_DB | Replicate\_Do\_Table | Replicate\_Ignore\_Table | Replicate\_Wild\_Do\_Table | Replicate\_Wild\_Ignore\_Table | Last\_Errno | Last\_Error | Skip\_Counter | Exec\_Master\_Log\_Pos | Relay\_Log\_Space | Until\_Condition | Until\_Log\_File | Until\_Log\_Pos | Master\_SSL\_Allowed | Master\_SSL\_CA\_File | Master\_SSL\_CA\_Path | Master\_SSL\_Cert | Master\_SSL\_Cipher | Master\_SSL\_Key | Seconds\_Behind\_Master | Master\_SSL\_Verify\_Server\_Cert | Last\_IO\_Errno | Last\_IO\_Error | Last\_SQL\_Errno | Last\_SQL\_Error | Replicate\_Ignore\_Server\_Ids | Master\_Server\_Id | Master\_UUID | Master\_Info\_File | SQL\_Delay | SQL\_Remaining\_Delay | Slave\_SQL\_Running\_State | Master\_Retry\_Count | Master\_Bind | Last\_IO\_Error\_Timestamp | Last\_SQL\_Error\_Timestamp | Master\_SSL\_Crl | Master\_SSL\_Crlpath | Retrieved\_Gtid\_Set | Executed\_Gtid\_Set | Auto\_Position | Replicate\_Rewrite\_DB | Channel\_Name | Master\_TLS\_Version |

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| Connecting to master | your\_master\_server\_ip | replication\_user | 3306 | 60 | mysql-bin.000001 | 123456 | DESKTOP-TJ8B6AI-relay-bin.000062 | 4 | mysql-bin.000001 | Connecting | Yes | | | | | | | 0 | | 0 | 123456 | 154 | None | | 0 | No | | | | | | NULL | No | 2005 | error connecting to master 'replication\_user@your\_master\_server\_ip:3306' - retry-time: 60 retries: 40 | 0 | | | 0 | | C:\ProgramData\MySQL\MySQL Server 5.7\Data\master.info | 0 | NULL | Slave has read all relay log; waiting for more updates | 86400 | | 240325 11:42:15 | | | | | | 0 | | | |

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1 row in set (0.00 sec)

mysql>