SQL ASSIGNMENT

TASK:

1. Write a stored procedure to paginate the data that comes out of a query. A query needs to be executed to display data from the Employee table. Use input as page number, number of rows per page.

Stored Procedure:

```
CREATE DEFINER=`root`@`localhost` PROCEDURE `paginate`(IN page_no INT, IN records_per_page INT)
```

BEGIN

DECLARE start_point INT DEFAULT 0;

SET start point = page no-1;

SET start point = start point*records per page;

SELECT * FROM EMPLOYEE LIMIT START_POINT , RECORDS_PER_PAGE; END

Call:

CALL paginate(3, 5);

	ID	FIRSTNAME	LASTNAME	DEPT_ID
•	11	ABHI	GYAN	103
	12	DARSHAN	PATIL	104
	13	OMKAR	RAIKAR	101
	14	GAURAV	YADAV	102
	15	AB	GY	103

- 2. Instead of INSERT, UPDATE, DELETE triggers
- a. INSTEAD OF INSERT TRIGGER

```
USE EMPLOYEES;

SELECT * FROM EMPLOYEE;

CREATE TRIGGER id_sum

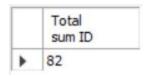
BEFORE INSERT ON EMPLOYEE FOR EACH ROW

SET @sum = @sum + NEW.ID;

SET @sum = 0;
```

INSERT INTO EMPLOYEE VALUES(19,'WB','AM',103), (20, 'JK', 'IJ', 104), (21, 'GH','EF', 101), (22, 'AB','CD',102);

SELECT @sum AS 'Total sum ID';



b. INSTEAD OF UPDATE TRIGGER

CREATE TABLE EMP_AUDIT(ID INT PRIMARY KEY, FIRSTNAME VARCHAR(50), LASTNAME VARCHAR(50), DEPT_ID INT, action VARCHAR(50));

CREATE TRIGGER empUpdate BEFORE UPDATE ON EMPLOYEE FOR EACH ROW INSERT INTO EMP_AUDIT
SET ACTION = "update",
DEPT_ID = OLD.DEPT_ID,
LASTNAME = OLD.LASTNAME,
FIRSTNAME = OLD.FIRSTNAME,
ID = OLD.ID:

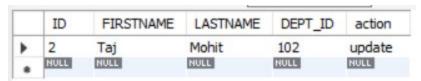
DELIMITER;

UPDATE EMPLOYEE SET DEPT_ID=105 WHERE ID = 2; SELECT * FROM EMP_AUDIT; CREATE TABLE EMP_AUDIT(ID INT PRIMARY KEY, FIRSTNAME VARCHAR(50), LASTNAME VARCHAR(50), DEPT_ID INT, action VARCHAR(50));

CREATE TRIGGER empUpdate BEFORE UPDATE ON EMPLOYEE FOR EACH ROW INSERT INTO EMP_AUDIT SET ACTION = "update",
DEPT_ID = OLD.DEPT_ID,
LASTNAME = OLD.LASTNAME,
FIRSTNAME = OLD.FIRSTNAME,
ID = OLD.ID;

DELIMITER;

UPDATE EMPLOYEE SET DEPT ID=105 WHERE ID = 2; SELECT * FROM EMP AUDIT;



c. INSTEAD OF DELETE TRIGGER

```
CREATE TABLE SALARIES (
  EMP NUMBER INT PRIMARY KEY,
 VALID DATE.
 AMOUNT DEC(12, 2) DEFAULT 0
);
INSERT INTO SALARIES VALUES(2,'2000-01-01',50000), (3,'2000-01-01',60000),
(4,'2000-01-01',70000);
SELECT * FROM SALARIES;
CREATE TABLE SALARY ARC (
  ID INT PRIMARY KEY,
  EMP NUM INT,
 VALID DATE,
 AMOUNT DEC(12, 2),
 DELETED AT TIMESTAMP DEFAULT NOW()
);
CREATE TRIGGER salDelete BEFORE DELETE ON SALARIES FOR EACH ROW
INSERT INTO SALARY ARC
```

VALUES(OLD.EMP NUMBER,OLD.VALID,OLD.AMOUNT);

DELETE FROM SALARIES WHERE EMP NUMBER = 4;