**MySQL Programs(Cursors and Handlers)**

1. Write a Procedure that displays names and salaries of all Analysts recorded in the “emp” table by making use of a cursor.

delimiter $$

DROP PROCEDURE IF EXIST QUE1;

CREATE PROCEDURE QUE1(IN J VARCHAR(10))

BEGIN

DECLARE EMPNAME VARCHAR(10);

DECLARE SALARY INT3;

DECLARE FINISHED INTEGER DEFAULT 0;

DECLARE EMP\_CURSOR CURSOR FOR SELECT ENAME, SAL FROM EMP WHERE JOB='ANALYST';

DECLARE CONTINUE HANDLER FOR NOT FOUND SET FINISHED=1;

OPEN EMP\_CURSOR;

GETVALUE:LOOP

FETCH EMP\_CURSOR INTO EMPNAME,SALARY;

IF FINISHED=1 THEN

LEAVE GETVALUE;

ELSE

SELECT EMPNAME,SALARY;

END IF;

ITERATE GETVALUE;

END LOOP GETVALUE;

CLOSE EMP\_CURSOR;

END $$

CALL QUE1('ANALYST');

1. Write a Procedure to display top 5 employees based on highest salary and display employee number, employee name and salary using Cursor.

delimiter $$

CREATE PROCEDURE QUE2()

BEGIN

DECLARE EMPID INT;

DECLARE EMPNAME VARCHAR(10);

DECLARE SALARY INT3;

DECLARE FINISHED INTEGER DEFAULT 0;

DECLARE EMP\_CURSOR CURSOR FOR SELECT EMPNO,ENAME, SAL FROM EMP ORDER BY SAL LIMIT 5;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET FINISHED=1;

OPEN EMP\_CURSOR;

GETVALUE:LOOP

FETCH EMP\_CURSOR INTO EMPID,EMPNAME,SALARY;

IF FINISHED=1 THEN

LEAVE GETVALUE;

ELSE

SELECT EMPID,EMPNAME,SALARY;

END IF;

ITERATE GETVALUE;

END LOOP GETVALUE;

CLOSE EMP\_CURSOR;

END $$

1. Write a procedure to display the concatenated first\_name and last\_name from “emp” table using cursors handle the errors with Exit handler

DELIMITER $$

CREATE PROCEDURE CONCAT\_NM\_JOB()

BEGIN

DECLARE LOCALNM VARCHAR(20);

DECLARE LOCALJOB VARCHAR(20);

DECLARE ERR VARCHAR(20);

DECLARE NM\_JOB CURSOR FOR SELECT ENAME,JOB FROM EMP;

DECLARE EXIT HANDLER FOR NOT FOUND SET ERR="ERROR OCCURED";

OPEN NM\_JOB;

TEST:LOOP

FETCH NM\_JOB INTO LOCALNM,LOCALJOB;

IF(ERR="ERROR OCCURED") THEN

LEAVE TEST;

END IF;

SELECT CONCAT(LOCALNM,' ',LOCALJOB);

END LOOP TEST;

CLOSE NM\_JOB;

END $$

CALL CONCAT\_NM\_JOB();

1. Write a procedure which select all the data from employee table and display the data of employee where employee name is ‘Manish’ using cursors.

DELIMITER $$

CREATE PROCEDURE IND\_ALL\_DATA()

BEGIN

DECLARE LLEMPNO numeric(4) DEFAULT 0;

DECLARE LLENAME varchar(30);

DECLARE LLJOB varchar(10);

DECLARE LLMGR numeric(4) DEFAULT 0;

DECLARE LLHIREDATE DATE;

DECLARE LLSAL numeric(7,2) DEFAULT 0;

DECLARE LLDNO numeric(2) DEFAULT 0;

DECLARE ERR INT DEFAULT 0;

DECLARE ALL\_DATA CURSOR FOR SELECT \* FROM EMP WHERE ENAME="Manish";

DECLARE CONTINUE HANDLER FOR NOT FOUND SET ERR=1;

OPEN ALL\_DATA;

TEST:LOOP

FETCH ALL\_DATA INTO LLEMPNO,LLENAME,LLJOB,LLMGR,LLHIREDATE,LLSAL,LLDNO;

IF(ERR=1) THEN

LEAVE TEST;

END IF;

SELECT CONCAT(LLEMPNO," ",LLENAME," ",LLJOB," ",LLMGR," ",LLHIREDATE," ",LLSAL," ",LLDNO);

END LOOP TEST;

CLOSE ALL\_DATA;

END $$

CALL IND\_ALL\_DATA();

1. Write a procedure which select delete the data from employee table if emp sal is less than 10000 using cursor and handle the Sqlexception with continue handler

delimiter $$

CREATE PROCEDURE QUE3()

BEGIN

DECLARE EMPID INT;

DECLARE EMPNAME VARCHAR(10);

DECLARE SALARY INT3;

DECLARE FINISHED INTEGER DEFAULT 0;

DECLARE EMP\_CURSOR CURSOR FOR SELECT EMPNO,ENAME, SAL FROM EMP ORDER BY SAL LIMIT 5;

DECLARE CONTINUE HANDLER FOR NOT FOUND SET FINISHED=1;

OPEN EMP\_CURSOR;

GETVALUE:LOOP

FETCH EMP\_CURSOR INTO EMPID,EMPNAME,SALARY;

IF FINISHED=1 THEN

LEAVE GETVALUE;

ELSE

SELECT EMPID,EMPNAME,SALARY;

END IF;

ITERATE GETVALUE;

END LOOP GETVALUE;

CLOSE EMP\_CURSOR;

END $$