

Semester I 2021/2022

Subject : Database (SECD2523) Section : 09 – Dr Haslina Hashim

Task : LAB DML-1 – INSERT UPDATE DELETE

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Instruction:

Students are required to discuss the questions below.

Given CREATE TABLE statements as follows:

```
CREATE TABLE department (
   depid
                   NUMBER (1),
   dname
                    VARCHAR2 (15),
                   VARCHAR2 (15),
   dlocation
   CONSTRAINT pk_department PRIMARY KEY (depid)
);
CREATE TABLE employee (
   fname
                   VARCHAR2 (15),
   mname
                    VARCHAR2(2),
   lname
                   VARCHAR2 (15),
   empid
                   VARCHAR2 (4) NOT NULL,
   bdate
                   DATE,
   address
                   VARCHAR2 (50),
   sex
                   VARCHAR2(1),
   salary
                   NUMBER (7) NOT NULL,
   svpid
                    VARCHAR2(4),
   depid
                   NUMBER (1) NOT NULL,
   CONSTRAINT pk employee PRIMARY KEY (empid)
);
```

a) Insert new data into the **EMPLOYEE** table.

```
'FAHMI', 'M.', 'AHMAD', '1234', '28-JAN-90', '54 Jalan Palas, Taman Teratai, 81110 Skudai, Johor', 'M', 2200, NULL, 5
```

(1 mark)

```
INSERT INTO EMPLOYEE

VALUES ('FAHMI', 'M.', 'AHMAD', '1234', '28-JAN-90', '54 Jalan Palas, Taman Teratai, 81110 Skudai, Johor', 'M', 2200, NULL, 5);
```

EMPLOYEE table, by showing their first name, last name and salary. (1.5 mark) 1 SELECT fname, lname, salary FROM EMPLOYEE WHERE salary BETWEEN 1500 AND 3000; **FNAME** LNAME **SALARY** FAHMI AHMAD 2200 AHMAD FAHMI 2200 c) Give each employee in department 5 a 4 percent raise. (1.5 mark) 1 UPDATE EMPLOYEE 2 SET salary=salary*1.04 WHERE depid=5; 2 row(s) updated. d) (1 mark) Remove all data from the **EMPLOYEE** table. 1 DELETE FROM EMPLOYEE 2 row(s) deleted.

Retrieve a list of all employees with salary between 1500 and 3000 from the

b)

5.

the **EMPLOYEE** table.

ALTER TABLE EMPLOYEE
ADD EMAIL VARCHAR(15)

Table altered.

ALTER TABLE EMPLOYEE
MODIFY fname VARCHAR(25);

Table altered.

Table altered.

(3 marks)

Add a new column **EMAIL** with 15 characters wide to the existing **EMPLOYEE** table. Then, modify the length of the **FNAME** column to 25 characters and remove the column **SVPID** from

6. Add a foreign key that will relate the **EMPLOYEE** table to the **DEPARTMENT** table. (2 marks)

```
ALTER TABLE EMPLOYEE

ADD CONSTRAINT fk_employee

FOREIGN KEY (depid) REFERENCES DEPARTMENT(depid);

Table altered.
```