# SubmissioN

In this assignment, you need to submit a single PDF file with your answers to the following questions. Refer to the lecture slides and chapter 8 from the book.

1. Provide Examples for the following control statements.
   1. (1pt) **Conditional IF statement**

If (position = 'Manager') THEN

salary:=salary\*1.05;

ELSE

salary:=salary\*1.03;

END IF;

* 1. (1pt) **Conditional CASE statement**

UPDATE Staff

CASE lowercase(x) SET salary =CASE

WHEN 'a' THEN x:=1; WHEN position='Manager'

WHEN 'b' THEN x:=2; THEN salary \* 1.05

y:=0;

ELSE

WHEN 'default THEN x:=3;

THEN salary \* 1.02

END CASE;

END;

* 1. (1pt) **Choose one Iteration statement [ (LOOP)** **| (WHILE and REPEAT) | (FOR) ]**

x:=1;

myLoop

LOOP

x := x+1;

IF (x > 3) THEN

EXIT myLoop; --- ext loop immediately

END LOOP myLoop;

---control resumes here

y:=2;

The following tables form part of a database held in a relational DBMS:

Hotel (hotelNo, hotelName, city)

Room (roomNo, hotelNo, type, price)

Booking (hotelNo, guestNo, dateFrom, dateTo, roomNo)

Guest (guestNo, guestName, guestAddress)

where Hotel contains hotel details and hotelNo is the primary key;

Room contains room details for each hotel and (roomNo, hotelNo) forms the primary key;

Booking contains details of the bookings and (hotelNo, guestNo, dateFrom) forms the primary key;

and Guest contains guest details and guestNo is the primary key.

Using the Hotel schema defined above answer the following questions

1. (3pts) **Create a stored procedure for the following query**

SELECT \* FROM Hotel; -- *List full details of all hotels.*

DELIMITER //

CREATE PROCEDURE GetAllHotelDetails()

BEGIN

SELECT \* FROM Hotel;

END //

DELIMITER ;SELECT \*

1. (4pts) **Create a database trigger for the following situation**

The price of all double rooms must be greater the $100.

DELIMITER $$

CREATE

    TRIGGER my\_trigger BEFORE INSERT

    ON Room

    FOR EACH ROW BEGIN

         IF NEW.type = 'double' AND new.price<=100 THEN

               print 'the price of a double room can''t be less than or equal to 100 dollars.'

         END IF;

    END$$

DELIMITER ;

DELIMITER $$

CREATE

    TRIGGER my\_trigger BEFORE update

    ON Room

    FOR EACH ROW BEGIN

         IF NEW.type = 'double' AND new.price<=100 THEN

               print 'the price of a double room can''t be less than or equal to 100 dollars.'

         END IF;

    END$$

DELIMITER ;