**103428 3A Fredah Kioko**

**CAT 3**

**QUESTIONS (15 marks)**

1. The marketing department requires your assistance to retrieve data that they can analyse further to know in which countries they should launch a marketing campaign. This will help the company to retain loyal customers and attract new customers. Create a stored procedure called “PROC\_question1” that accepts a country’s name (textual name) as input and outputs the relevant details of the customers in that country. Provide the code that you used to create the procedure. **(5 marks)**

**Step 1 Execute the stored procedure**

CREATE PROCEDURE `PROC\_question1`(IN county\_id smallint ,OUT update last\_update TIMESTAMP)

BEGIN

SELECT Date INTO last\_update

FROM country

WHERE ID = country\_id;

END

Output

CREATE DEFINER=`root`@`localhost` PROCEDURE `PROC\_question1`(IN country\_id smallint, OUT last\_update TIMESTAMP)

BEGIN

SELECT Date INTO last\_update

FROM country

WHERE ID = country\_id;

END

**Step 2 to calling the procedure**

**To check if film for example at country 1 is in stock.**

**set** @p\_film\_id =1**;**

**CALL** `sakila`.`film\_in\_stock`(@p\_film\_id , @p\_film\_id, @p\_film\_count);

**select** @p\_film\_count**;**

output 4;

**Also to check if it is out of stock And to view the rewards\_report**

ewards\_reportfilm\_in\_stockfilm\_in\_stockCALL `sakila`.`film\_not\_in\_stock`(<{IN p\_film\_id INT}>, <{IN p\_store\_id INT}>, <{OUT p\_film\_count INT}>);

1. The inventory management officer at the company requires a view that shows only the film\_id, title, and description. One of your colleagues suggests that another table called film\_text that contains these three attributes should be created. Provide the code to create a trigger called “TRG\_inv\_film” that duplicates INSERT operations on the film relation to the film\_text relation. This duplication should be done after inserting a tuple into the film relation. For example, if the relation film has 6,000 tuples and tuple number 6,001 is inserted into film. Immediately after it is inserted, the trigger should be automatically fired to create a similar tuple number 6,001 in the film\_text relation. **(8 marks)**

CREATE TRIGGER TRG\_inv\_film

AFTER INSERT

ON film\_text FOR EACH ROW

;

1. You realize that using an index can improve the performance of a query being processed. Create an index called “IDX\_question3” that is of the type B-Tree on the film\_text.title attribute**. (2 marks)**

CREATE INDEX `IDX\_question3` USING BTREE ON

Film\_text (title VARCHAR (255));