**SQL USE CASE 3**

**LOADING FILES AND WORKING WITH DATA**

**Question 1**

**Upload the CSV data via CLI into the database**

create table USECASE3 (

TIME datetime NOT NULL,

DEVICE char(2) NOT NULL,

CONSUMPTION decimal(4,3) NOT NULL

);

LOAD DATA

LOCAL INFILE '/home/supraja/Downloads/usecase3.csv'

INTO TABLE USECASE3

FIELDS TERMINATED BY ','

IGNORE 1 LINES ;

**Question 4**

**Find the hour-wise cumulative consumption of each device.**

SELECT DEVICE,

HOUR(TIME),

SUM(CONSUMPTION) AS HOURLY\_CONSUMPTION FROM USECASE3

GROUP BY DEVICE,HOUR(TIME)

ORDER BY DEVICE,HOUR(TIME);

**Question 5**

**Find the peak consumption reached in a given time range for all the devices.**

SELECT DEVICE,

MAX(CONSUMPTION) AS PEAK

FROM USECASE3

WHERE TIME >= '2020-01-01 10:00:00' AND

TIME <= '2020-01-01 10:05:00'

GROUP BY DEVICE ORDER BY DEVICE ;