**State University of New York at New Paltz**

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**S22-52**

**REPORT for PROJECT # 01**

(MySQL and Basic SQL)

**CPS593-04 “Database Management Systems”**

**(Professor Hanh Pham)**

**Summer 2022**

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**Business Scenario**

A businessman wants to keep track of coffee cup sales in a state. They store data about each cup size, which store the cups were sold to, and the average number of cups that were sold to the store for a specific size. Due to a recent cup shortage, we want to target which cup size is being used the most so that the businessman can inform the business which cup to increase production in.

Based on this information, we create a table called Cafes and store data as follows:

Table

Description automatically generated

STEP-1: **SHOW** what databases you have now in a DBMS

**SHOW DATABASES;**

Graphical user interface, text, application, email

Description automatically generated

STEP-2: **USE** (choose) a database to work with:

**USE thompsoe7\_db;**

Text

Description automatically generated

STEP-3: **CREATE** a new table.

**CREATE TABLE CAFES (**

**StoreId INT(3) UNSIGNED ZEROFILL DEFAULT '000' NOT NULL,**

**Size CHAR(10) DEFAULT '' NOT NULL,**

**AvgCups DOUBLE(6,1) DEFAULT '0.00' NOT NULL,**

**PRIMARY KEY(StoreId, Size));**

**INSERT INTO CAFES VALUES**

**(100,’small’,250),(100,’medium’,200),(300,’medium’,210),**

**(300,’large’,110),(200,’large’,180),(200,’small’,90),(100,’large’,60);**

Text, letter

Description automatically generated

STEP-4: **SEE** the contents of a table using SELECT:

**SELECT \* FROM CAFES;**

Table

Description automatically generated with medium confidence

STEP-5: **INSERT** (add) a new ROW/RECORD into a table:

**INSERT INTO CAFES**

**(StoreId,Size,AvgCups)**

**VALUES (300,'small',127);**

**Table

Description automatically generated**

STEP-6: **DELETE** (remove) a ROW/RECORD from a table:

**DELETE FROM CAFES**

**WHERE Size = ‘medium’ AND StoreId = 300;**

Table

Description automatically generated

STEP-7: **UPDATE** (change VALUES of) a whole ROW/RECORD in a table:

**UPDATE CAFES**

**SET AvgCups = 180.0**

**WHERE Size = 'small' AND StoreId = 100;**

**Table

Description automatically generated**

STEP-8: **ADD** a new COLUMN into a table

**ALTER TABLE CAFES**

**ADD Cost DOUBLE(5,2) DEFAULT '0.0' NOT NULL;**

Table

Description automatically generated

STEP-9: **UPDATE** (change VALUES of) a whole COLUMN in a table:

**UPDATE CAFES**

**SET Cost = 150.25;**

Table

Description automatically generated

STEP-10: **DELETE** a COLUMN in a table:

**ALTER TABLE CAFES**

**DROP COLUMN Cost;**

**Table

Description automatically generated**