# Business Rules

1. SCOPE OF THE DATABASE SCHEMA:-

A.1 The Scope is enrolling and taking music classes from SMMC

1. THE THING OF INTEREST include:-

B.1 Persons

B.2 Students

B.3 Tutors

B.4 Guardians

B.5 Classes

B.6 Instruments

B.7 Performances

B.8 Sheet Music

B.9 Ensembles

B.10 Seniority

1. These THINGS are Related as follows:-

C.1 A STUDENT can be ENROLLED in none or many CLASSES

C.2 An Enrolled STUDENT must be a member of an ENSEMBLE

C.3 A TUTOR is paid based on the INSTRUMENT and SENIORITY

C.4 An INSTRUMENT has different costs depending on the STUDENT’s graduation status

C.5 A STUDENT under 18 must have GUARDIAN information

C.6 An INSTRUMENT must have a HEAD TUTOR

1. Other Characteristics of these THINGS include:-

D.1 A piece of MUSIC may not be used in a PERFORMANCE if it has been used in any of the 3 years prior

D.2 An ENSEMBLE must play at the major PERFORMANCE each year

D.3 STUDENTS may not hire a Recorder INSTRUMENT

D.4 Only a head or senior TUTOR may teach an INSTRUMENT at level 7 and 8

A. SCOPE OF THE DATABASE SCHEMA :

A.1 The Scope is buying products from Amazon.com and Starbucks.

B. THE THINGS OF INTEREST include :-

B.1 Addresses.

B.2 Customers.

B.3 Deliveries

B.4 Orders.

B.5 Payments

B.6 Products.

B.7 Suppliers.

C. These THINGS are Related as follows :-

C.1 A Customer can have zero,one or many ORDERS.

C.2 A CUSTOMER\_ADDRESS can be associated with only one ADDRESS.

C.3 A CUSTOMER\_ADDRESS can be associated with only one CUSTOMER.

C.4 A DELIVERY is associated with just one ORDER.

C.5 An ORDER must be associated with one and only one CUSTOMER.

In different applications in the real world, it is possble that an ORDER can

be associated with more than one CUSTOMER,but in our example, it's only one.

C.6 An ORDER can be associated with one or many PRODUCTS.

C.7 A PAYMENT must be associated with one and only one ORDER.

D. Other Characteristics of these THINGS include :-

D.1 A BOOK can have one and only one ISBN.

D.2 A FRAPPUCCINO can have a Flavor.

D.3 A PANINI can have Ingredients.