**CARNEGIE MELLON UNIVERSITY**
**15-826 - Multimedia databases and data mining**
**Fall 2011 C. Faloutsos**

**Homework 1 submission**
**Andrew ID: _____**

**Question 1: SQL**

1. Schemas which break BCNF: _____

2.

   1. Total size of the schema: _____

   2. Server with the largest traffic size: _____

   Query:

   3. Number of pairs of users with common interests: _____

   Query:

3.

   1. Top five users by simultaneous requests:

   Query:

Top five users by total traffic:

Query:

2. Query for the number of distinct users and total bandwidth requested:

3. The server with the highest number of distinct users: _____

Query:

4.

1. Total traffic for user Smith: _____

Query:

Time it took to execute query: _____

2. Index statement:

Time it took to execute query: _____

## Q2: KD-trees

1. List your changes at the end of the document.
2. nearest neighbor to point of coordinates (0.1,0.1): _____
3. all the points within euclidean distance 10 of the point (0.2,0.5): _____