

Chris Bora(cdb239)  
Richie Henwood(rbh228)  
Han Wen Chen(hc844)

### **Project 3 Experiments**

#### 1. Queries

- ```
SELECT S.A, S.B, B.G
FROM Sailors S, Reserves R, Boats B
WHERE S.C < 500 AND S.A = R.E AND R.F = B.G
```
- ```
SELECT S.A, S.B, B.G
FROM Sailors S, Reserves R, Boats B
WHERE S.A = R.E AND R.F = B.G
```
- ```
SELECT *
FROM Sailors S, Reserves R
WHERE S.A = R.E
```

#### 2. Description of data used

| Table name | Number of columns | Column names | Number of tuples |
|------------|-------------------|--------------|------------------|
| Sailors    | 4                 | A B C D      | 10,000           |
| Reserves   | 2                 | E F          | 12,500           |
| Boats      | 3                 | G H I        | 7,500            |

Generation of tuples: the first column was at first generated in order from 0 to (#tuples - 1). The values of remaining column were generated using a random number generator between a range [0,1000] using java's Random::randint(). We then shuffled everything using Collections.shuffle() so that the data would no longer be sorted on the first column.

#### 3. SMJ buffer size of 5 pages

4.

