

## EECS484 Project4 Report

### Insert

#### A. Without indices

1. Insert with attributes in order
2. Insert with attributes out of order
3. Insert with duplicate attributes
4. Insert with missing attributes
5. Insert with too many attributes
6. Insert with attributes with invalid type

#### B. With indices

1. Insert with attributes in order
2. Insert with attributes out of order
3. Test inserted indices by selecting on indexed attributes

### Select

#### A. Simple Select

1. Select with predicate operator =
2. Select with predicate operator  $\neq$
3. Select with predicate operator >
4. Select with predicate operator  $\geq$
5. Select with predicate operator <
6. Select with predicate operator  $\leq$
7. Select without predicate
8. Select a subset of attributes

#### B. Index Select

1. Select with indexed predicate attribute

## **Join**

### **A. Simple Nested Loop (SNL)**

1. Join with predicate operator  $\lt \gt$
2. Join with predicate operator  $\gt$
3. Join with predicate operator  $\gt =$
4. Join with predicate operator  $\lt$
5. Join with predicate operator  $\lt =$

### **B. Indexed Nested Loop (INL)**

1. Join with indexed left attribute in the predicate
2. Join with indexed left attribute and right attribute in the predicate
3. Join with indexed right attribute in the predicate

### **C. Sort Merge Join (SMJ)**

1. Join with duplicates
2. Join with unordered tuples