Database Unit Tests

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1 Null-Insert Testing

1.1 Summary

Null testing is the simple procedure of attempting an insert into a table with all fields of the row being null. This will be done to every table that has a mandatory field, which will be all of them, and every single test should result in a failed insert. This test is also weak constraint checking, since null fields will never be within a constraint. When this test is ran, it will attempt to insert entries into each table with all null values.

1.2 Example Test Input

```
INSERT INTO Companies (ID, cName, StockID) VALUES (null, null, null)
```

1.3 Expected Output

We expect the database to reject insertions where every field is a null value.

We also expect the database to reject null inputs on fields with not-null constraints placed on them (primary/foreign keys, other fields based on business rules).

1.3.1 Expected Exceptions

SQLAlchemy

DataError

2 Other Test When We Decide