Left Window — C:\Users\amgrieco\Documents\Visual Studio 2017\Projects\...

```
(sql4300: running with database environment at C:\Users\amgrieco\Documents\Visua
l Studio 2017\Projects\Project\cpsc5300env)
SQL> test
test_heap_storage:
create ok
drop ok
create_if_not_exsts ok
insert ok
select/project ok 1
many inserts/select/projects ok
del ok
test_heap_storage: ok
test_btree: ok
SQL> create table foo (id int, data text)
CREATE TABLE foo (id INT, data TEXT)
created foo
SQL> insert into foo values (1,"one");insert into foo values(2,"two"); insert in
to foo values (2, "another two")
INSERT INTO foo VALUES (1, "one")
successfully inserted 1 row into foo
INSERT INTO foo VALUES (2, "two")
successfully inserted 1 row into foo
INSERT INTO foo VALUES (2, "another two")
successfully inserted 1 row into foo
SQL> select * from foo
SELECT * FROM foo
id data
+----------+----------+
1 "one"
2 "two"
2 "another two"
successfully returned 3 rows
SQL> create index fxx on foo (id)
CREATE INDEX fxx ON foo USING BTREE (id)
Error: DbRelationError: Duplicate keys are not allowed in unique index
SQL> show index from foo
SHOW INDEX FROM foo
table_name index_name column_name seq_in_index index_type is_unique
+----------+----------+----------+----------+----------+----------+
successfully returned 0 rows
SQL> delete from foo where data = "two"
DELETE FROM foo WHERE data = "two"
successfully deleted 1 rows from foo
SQL> select * from foo
SELECT * FROM foo
id data
+----------+----------+
1 "one"
2 "another two"
successfully returned 2 rows
SQL> create index fxx on foo (id)
CREATE INDEX fxx ON foo USING BTREE (id)
created index fxx
SQL> show index from foo
SHOW INDEX FROM foo
table_name index_name column_name seq_in_index index_type is_unique
+----------+----------+----------+----------+----------+----------+
"foo" "fxx" "id" 1 "BTREE" true
```

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```
CREATE TABLE foo (id INT, data TEXT)
created foo
SQL> insert into foo values (1,"one");insert into foo values(2,"two"); insert in
to foo values (2, "another two")
INSERT INTO foo VALUES (1, "one")
successfully inserted 1 row into foo
INSERT INTO foo VALUES (2, "two")
successfully inserted 1 row into foo
INSERT INTO foo VALUES (2, "another two")
successfully inserted 1 row into foo
SQL> select * from foo
SELECT * FROM foo
id data
+----------+----------+
1 "one"
2 "two"
2 "another two"
successfully returned 3 rows
SQL> create index fxx on foo (id)
CREATE INDEX fxx ON foo USING BTREE (id)
Error: DbRelationError: Duplicate keys are not allowed in unique index
SQL> show index from foo
SHOW INDEX FROM foo
table_name index_name column_name seq_in_index index_type is_unique
+----------+----------+----------+----------+----------+----------+
successfully returned 0 rows
SQL> delete from foo where data = "two"
DELETE FROM foo WHERE data = "two"
successfully deleted 1 rows from foo
SQL> select * from foo
SELECT * FROM foo
id data
+----------+----------+
1 "one"
2 "another two"
successfully returned 2 rows
SQL> create index fxx on foo (id)
CREATE INDEX fxx ON foo USING BTREE (id)
created index fxx
SQL> show index from foo
SHOW INDEX FROM foo
table_name index_name column_name seq_in_index index_type is_unique
+----------+----------+----------+----------+----------+----------+
"foo" "fxx" "id" 1 "BTREE" true
successfully returned 1 rows
SQL> insert into foo values (4,"four")
INSERT INTO foo VALUES (4, "four")
successfully inserted 1 row into foo and 1 indices
SQL> select * from foo
SELECT * FROM foo
id data
+----------+----------+
1 "one"
2 "another two"
4 "four"
successfully returned 3 rows
SQL>
```