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CSC355

Assignment 6

Part 1.

1. See “timePopulating()” in Java code. Average result of three timings: 1.176 seconds
2. See “deleteRandom()” in Java code
3. See “userInput()” in Java code

Part 2.

1. A primary index is an index that includes primary keys and will not contain any duplicates. The data retrieval is faster with this. A secondary index is when no primary index exists, thus allowing duplicates.
2. Creating indexes
   1. CREATE INDEX pBrandIndex ON PART(p\_brand1);
   2. CREATE INDEX pNameIndex ON PART(p\_name);
   3. CREATE INDEX combinedIndex ON PART(p\_brand1, p\_name);
3. Creating Materialized Views
   1. CREATE MATERIALIZED VIEW mview1

ENABLE QUERY REWRITE

AS

SELECT \* FROM Part WHERE p\_brand1 = 'MFGR#2414';

* 1. CREATE MATERIALIZED VIEW mview2

ENABLE QUERY REWRITE

AS

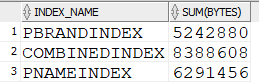
SELECT p\_category FROM Part WHERE p\_name = 'mocassin royal';

* 1. CREATE MATERIALIZED VIEW mview3

ENABLE QUERY REWRITE

AS

SELECT \* FROM Part WHERE p\_brand1 = 'MFGR#2124' and p\_name = 'mocassin royal';

1. Creating Indexes on Materialized Views
   1. CREATE INDEX mv1Index ON mview1(p\_brand1);
   2. CREATE INDEX mv2Index ON mview2(p\_category);
   3. CREATE INDEX mv3Index ON mview3(p\_brand1, p\_name);
2. Collecting and reporting
   1. 
   2. 
   3. 