**QUERIES USED:**

A) SELECT \* FROM products WHERE productCode = 1949;

B) SELECT \* FROM products ORDER BY productCode DESC LIMIT 1, 1;

**RESULT:**

Both queries returned the same values:

productCode productName productLine productScale productVendor productDescription

1949 1952 Alpine Renault 1300 Classic Cars 1:10 Classic Metal Creations Turnable front wheels; steering function; detailed interior; detailed engine;opening hood; opening trunk; opening doors; and detailed chassis.

**Performance:**

A) 9ms

B) 5ms

**ANSWERS TO WRITTEN QUESTIONS**

1. I wrote the first query in a manner that explicitly queries for the row(s) corresponding to productCode 1949. I knew the database is small I did not concern myself with performance.

Nonetheless I was able to improve the performance for Query B by ordering the returned values by productCode and extracting only the second row. To further improve performance for a large dataset, I would set the productCode as an Index.

2. I chose MySQL for the backend as it is widely-used, highly reputable and open-source RDBMS with which I am most familiar.