	20.000 Entry	100.000 Entry
Oracle Insert	28.45sn	142.70sn
Oracle Select	50.83sn	427.99sn
Hazelcast Put	5.512sn	22.52sn
Hazelcast Get	3.139sn	13.652sn

## **Oracle Results**

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/com/hazelcastHomework/TestOracleInsert.java - Eclipse IDE
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© Project Explorer % □ % ♥ % ♥ 0 D TestOracleInsertjava % M hazlecast-defaultzml D TestOracleSelectjava

> D Calculator/Web 13® public static void main(String[] args) throws InterruptedException {
                                                                                                                                                                                                                                                                                                                                                                                                                                   ⊕ com.hazelcastHo
∨ Θ<sub>▶</sub> TestOracleInsert
                                                                                                                  // ORACLE INSERT
     ∨ # com.hazelcastHomework
                                                                                                                                                                                                                                                                                                                                                                                                                                                           • s main(String[]) : voi
     Class.forName("oracle.jdbc.driver.OracleDriver");
Connection connection = DriverNamager.getConnection("jdbc:oracle:thin:@localhost:2130:GoldenDB","berkay2","berkay2");
Statement = connection.createStatement();
                                                                                                                         Random random = new Random();
long startTime = System.nanoTime();
          Maven Dependencies
                                                                                                                            for(int i = 0; i< 20000; i++)
         ■ JRE System Library [J2SE-1.5]
                                                                                                                                  statement.executeUpdate("INSERT INTO TEST VALUES("+i+","+random.nextInt(20000)+")");
    ⇒ target

in pom.xml

in com.maven.logging

in HospitalManagement
                                                                                                                           }
long endTime = System.nanoTime()- startTime;
double second = (double)endTime / 1000000000.0;
System.out.print("Oracle Insert Time = "+second);
    Servers2
webCalculationClient
                                                                                                                     atch(Exception e)
                                                                                                                           System.out.print(e);
                                                                                       Markers ☐ Properties # Servers  Data Source Explorer  Snippets ☐ Console ☐ Progress ☐ Coverage
                                                                                                                                                                                                                                                                                                                                                                                                         <terminated> TestOracleInsert [Java Application] C\Program Files\Java\Jdk1.8.0_291\bin\Javaw.exe (1 Ağu 2021 23:26:44 - 23:27:15)
Oracle Insert Time = 28.451786999
| Telipe Continaericastroneworks/continaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronework/scontinaericastronewor
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                                                                                                                                                                                                                                                                                                                                                                                                                                    // ORACLE INSERT
     ~ 🎜 src/main/java

→ 

B com.hazelcastHomework

              > 💹 TestOracleInsert.java
> 💹 TestOracleSelect.java
                                                                                                                         Class.forName("oracle.jdbc.driver.OracleDriver");
Connection connection = DriverManager.getConnection("jdbc:oracle:thin:@localhost:2130:GoldenDB","berkay2","berkay2");
Statement statement = connection.createStatement();
    > In TestOracleSelect.java

Stc/main/resources

hazlecast-default.xml

strc/test/java

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Mayen Dependencies

ME System Library [J2SE-1.5]
                                                                                                                           Random random = new Random();
long startTime = System.nanoTime();
                                                                                                                           for(int i = 0; i< 100000; i++)
                                                                                                                                 statement.executeUpdate("INSERT INTO TEST VALUES("+i+","+random.nextInt[[100000]+")");
         (a) target
                                                                                                                           }
long endTime = System.nanoTime()- startTime;
double second = (double)endTime / 1000000000.0;
System.out.print("Oracle Insert Time = "+second);
  barget
pom.xml
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HospitalManagement

Servers2

webCalculationClient
                                                                                                                    catch(Exception e)
                                                                                                                         System.out.print(e);
                                                                                                       }
                                                                                      Markers □ Properties ¾ Servers ♣ Data Source Explorer □ Snippets □ Console ☼ ➡ Progress ♣ Console №
                                                                                                                                                                                                                                                                                                                                                                                                         <terminated> TestOracleInsert [Java Application] C\Program Files\Java\jdk1.80_291\bin\javaw.exe (1 Ağu 2021 23:31:49 – 23:34:14)
Oracle Insert Time = 142.7036694
```

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Eclipse - com.hazelcastHomework/src/main/java/com/hazelcastHomework/TestOracleSelect.java - Eclipse IDE
| File Edit Source Refactor Navigate Search Project Run Window Help
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Q B 2 6 4
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                                                                                                                                                                                                                                                                                                                                                                                                                                      Class.forName("oracle.jdbc.driver.OracleDriver");
Connection connection = DriverNanger.getConnection("jdbc:oracle:thin:@localhost:2130:GoldenD8","berkay2");
Statement statement = connection.createStatement();

    ✓ ﷺ src/main/java
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    TestOracleInsert.java
    TestOracleSelect.java

| Stress | 
                                                                                                                                                                                                                                                                                                                                                                                                                                           int number;
long startTime = System.nanoTime();
                                                                                                                                                                                                                                                                                                                                                                                                                                        for(int i = 0; i < 20000; i++)
                                                                                                                                                                                                                                                                                                                                                                                               ResultSet rs = statement.executeQuery("SELECT VALUE FROM TEST WHERE ID = "+i+"");
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               rs.next();
number = rs.getInt("VALUE");
                                                                                                                                                                                                                                                                                                                                                                                                                                long endTime = System.nanoTime() - startTime;
double second = (double)endTime / 1000000000.0;
System.out.println("Oracle 20000 Entry Select Time = "+second);
                                                                                                                                                                                                                                                                                                                                                                                                               catch(Exception e)
                                                                                                                                                                                                                                                                                                                                                                                                                                      System.out.println(e);
                                                                                                                                                                                                                                                                                                                                                                                                       1
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Markers □ Properties ## Servers Mit Data Source Explorer □ Snippets □ Console □ □ Progress □ Coverage 
- terminated - TestOracleSelect (Java Application) C\Program Files\Java\jdk1.80_291\bin\javaw.exe (1 Agu 2021 232757 – 232850)

Oracle 20000 Entry Select Time = 50.8267033
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Eclipse - com.hazelcastHomework/src/main/java/com/hazelcastHomework/TestOracleSelect.java - Eclipse IDE
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9. TestOracleSelect

5 main(String[]): voi
    Class.forName("oracle.jdbc.driver.OracleDriver");
Connection connection = DriverManager.getConnection("jdbc:oracle:thin:@localhost:2130:GoldenD0","berkay2");
Statement statement = connection.createStatement();
              > D TestOracleSelect_java

> Strc/main/resources

| hazlecast-default.xml
| hazlecast-default.xml
| size_strc/test/java
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| minimal size_stresources
| minimal size
                                                                                                                                                                                                                                                                                                                                 int number;
long startTime = System.nanoTime();
                                                                                                                                                                                                                                                                                                                                   for(int i = 0; i < 100000; i++)
                                                                                                                                                                                                                                                                                                                                                          ResultSet rs = statement.executeQuery("SELECT VALUE FROM TEST WHERE ID = "+i+"");
rs.next();
number = rs.getInt("VALUE");
    > Servers2
                                                                                                                                                                                                                                                                                                                          long endTime = System.nanoTime() - startTime;
double second = (double)endTime / 1000000000.0;
System.out.println("Oracle 100000 Entry Select Time = "+second);
                                                                                                                                                                                                                                                                                                            catch(Exception e)
{
                                                                                                                                                                                                                                                                                                                                 System.out.println(e);
                                                                                                                                                                                                                                 Markers □ Properties # Servers № Data Source Explorer ☆ Snippets □ Console ⋈ □ Properties □ Coverage cterminated> TestOracleSelect [Java Application] C.\Program Files\Java\gkt1.80_291\bin\javawæve (1 Agu 2021 234601 – 2353:11)
Oracle 100000 Entry Select Time = 427.982373999
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 = x % | A D D C D + C + C 0
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## **Hazelcast Results**

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Eclipse - com.hazelcastHomework/src/main/java/com/hazelcastHomework/TestHazelcastGet.java - Eclipse IDE
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  canculatorweb

com.hazelcastHomework
                                            2
3*import com.hazelcast.core.Hazelcast;□
                                                                                                                                                                                                                    ✓ 9. TestHazelcastGet

p s main(String[]): voi
                                             6
7 public class TestHazelcastGet {
     99 public static void main(String[] args) {
10
11    HazelcastInstance _hazelcastInstance |
12    IMapcObject, Object> map = _hazelcast
13
                                                      HazelcastInstance _hazelcastInstance = Hazelcast.neudiazelcastInstance();
IMapcObject, Object> map = _hazelcastInstance.getMap("mapTest");
                                                     Object random = 0;
long startline = System.nanoTime();
for(int i= 0; i < 20000; i++)
{
                                                           random = map.get(i);
                                                       }
long endTime = System.nanoTime()- startTime;
double Seconds = (double)endTime / 1000000000.0;
System.out.print("Hazelcast 20000 Entry Select Time = "+seconds);

    Servers2
    ⇒ webCalculationClient

                                          Ağu 02, 2021 12:35:59 AM com.hazelcast.core.LifecycleService
INFO: [192.168.1.33]:5704 [dev] [4.2] [192.168.1.33]:5704 is STARTED
Hazelcast 20000 Entry Select Time = 3.1388263
com.hazelcastHomework
```

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