

# Java

- String → StringBuilder
- java.util.Date ↔ java.time.Instant
- java.util.Calendar → java.time.Instant
- java.text.SimpleDateFormat
- java.time
  - Local
  - Zoned
  - Offset
- Collections
  - List; ArrayList, LinkedList
  - Set; HashSet, LinkedHashSet
  - Map; HashMap, LinkedHashMap
- 람다식

(자료형 인수, ...) -> { ... 임의의 처리 ... }

## Database

```
import java.sql.*;

...
...
Connection conn = null;
try
{
    Class.forName("DRIVER");
}
catch(ClassNotFoundException e)
{
    e.printStackTrace();
}
try
{
    conn = DriverManager.getConnection("jdbc database", "user", "password");
    Statement stmt = conn.createStatement();
    ResultSet rset = stmt.executeQuery("QUERY");
    while(rset.next())
    {
        // do something
    }
}
catch(SQLException e)
{
```

```
    e.printStackTrace();
}
finally
{
    if(conn != null)
    {
        try
        {
            conn.close();
            conn = null;
        }
        catch(SQLException e)
        {
            e.printStackTrace();
        }
    }
}
...
...
```

- `conn.setAutoCommit(true/false);`
- `conn.commit();`
- `conn.rollback();`
- `PreparedStatement stmt = conn.prepareStatement(".... ?");`
  - `stmt.setString(1, "value");`
- **DAO** Data Access Object
- **DTO** Data Transfer Object
- **JPA** Java Persistence API

## File I/O

- `FileReader`
- `BufferedReader`
- `Scanner`
- `Files`
- `CSV, XML, LOGGER`

## Tests

- `JUnit`
  - `@Test`
  - `@Before`
  - `@After`
  - `@BeforeClass`
  - `@AfterClass`
  - `@Ignore`
  - `import static org.junit.Assert.*;`

- assertEquals()
- fail()
- assertThat()
- import static org.hamcrest.CoreMatchers.\*;
  - is()
- JMockit
- DbUnit

## Reserved Words

- data types
  - byte
  - short
  - int
  - long
  - float
  - double
  - char
  - boolean
  - void
- class & packages
  - class
  - interface
  - enum
  - package
  - import
  - extends
  - implements
  - this
  - super
  - new
- modifiers
  - public
  - protected
  - private
  - static
  - final
  - abstract
  - native
  - volatile
  - transient
  - synchronized
  - strictfp
- operations
  - if
  - else
  - switch
  - case

- default
- for
- while
- do
- break
- continue
- return
- instanceof
- assert
  
- exceptions
  - try
  - catch
  - finally
  - throw
  - throws
  
- others
  - const
  - goto

## References

- [점프 투 자바](#)
- [\[자바 IDE\] IntelliJ vs Eclipse 비교](#)
- [MyBatis에서 샷\(#{}\)과 달러\(\\${}\)의 차이는 무엇일까?](#)
- [Java Design Patterns](#)
- [Design patterns implemented in Java](#)
- [자바-코드를-조작하는-다양한방법.md](#)

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