Statements, Prepared Statement, and ResultSets

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```java
Statement stmt = con.createStatement();
ResultSet rset = stmt.executeQuery(sql);

while (rset.next()) {
    Book book = new Book();
    book.setId(rset.getLong("id"));
    book.setTitle(rset.getString("title"));
    books.add(book);
}
```

ResultSet

Interface
Column name

```java
String sql = "SELECT ID, TITLE from BOOK where ID = ?";
Connection conn = getConnection();
PreparedStatement prepStmt = conn.prepareStatement(sql);
prepStmt.setLong(1, id);

ResultSet rset = prepStmt.executeQuery();
Book resBook = new Book();
```
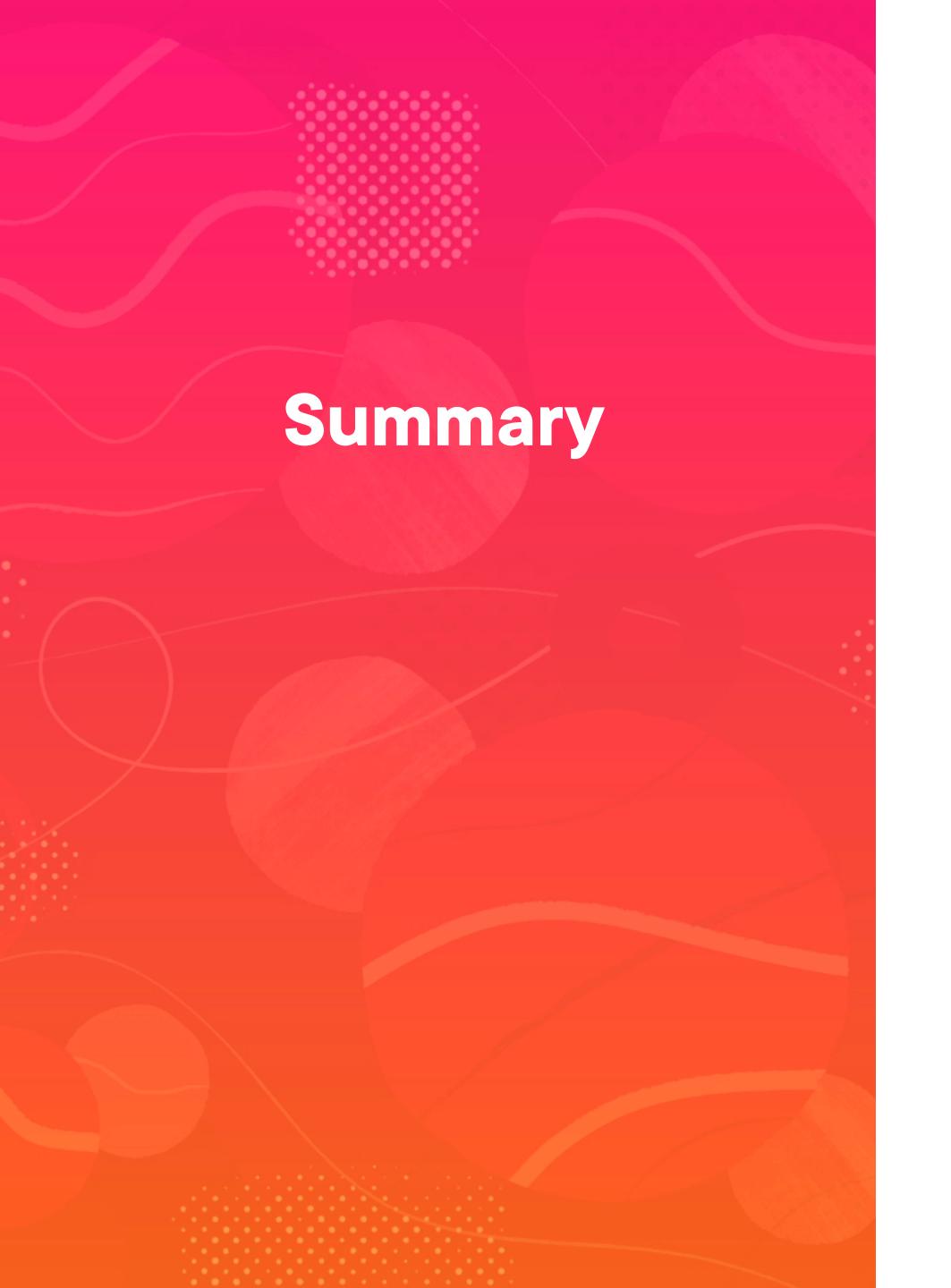
PreparedStatement

Parameters

```java
Optional<Book> optBook = bookDao.findById(1);
if (optBook.isPresent()) {
    Book book = optBook.get();

    System.out.println("Id: " + book.getId());
    System.out.println("Title: " + book.getTitle());
}
```

Optionals

Null
Exceptions

Summary

ResultSet

PreparedStatement

Optional