SB101

Day-15 & 16
JDBC ResultSet & DAO Pattern

JDBC ResultSet

ResultSet Object is used to access query results retrieved from the relational databases.

ResultSet maintains cursor/pointer which points to a single row of the query results. Initially, the cursor of ResultSet points to the position before the first row.

The method next of ResultSet moves the cursor to the next row. It returns true if there is further row otherwise it returns false.

All the getter methods have two variants. 1st variant takes column index as Parameter and 2nd variant accepts column name as Parameter. Using the column index will be more efficient. Columns are numbered from 1.

A default ResultSet object is not updatable and has a cursor that moves forward only. Thus, you can iterate through it only once and only from the first row to the last row.

JDBC ResultSet

Some important methods are as follow-

void beforeFirst()

boolean isFirst()

void afterLast()

boolean isLast()

boolean next()

void close()

boolean getBoolean(String columnLabel)

int getInt(String columnLabel)

double getDouble(String columnLabel)

String getString(String columnLabel)

Date getDate(String columnLabel)

Tip: All methods throws SQLException

boolean first()

boolean isBeforeFirst()

boolean isAfterLast()

boolean last()

boolean isClosed()

boolean getBoolean(int columnIndex)

int getInt(int columnIndex)

double getDouble(int columnIndex)

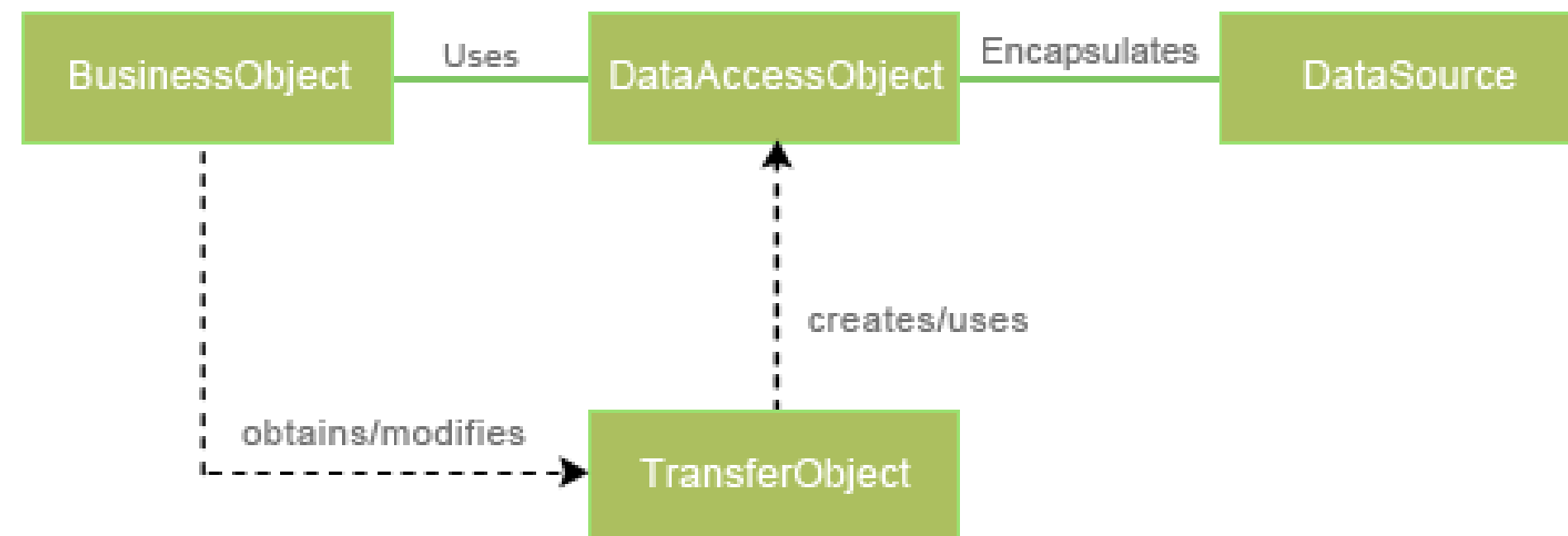String getString(int columnIndex)

Date getDate(int columnIndex)

Data Access Object Pattern

The DAO design pattern completely hides the data access implementation from its clients. The interfaces given to client does not changes when the underlying data source mechanism changes.

The DAO design pattern consists of some factory classes, DAO interfaces and some DAO classes to implement those interfaces.

QUERY?