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package fi.paatti.paattidatabaseutils.dbsevice.querydelegates;

import com.vaadin.data.util.sqlcontainer.RowItem;
import com.vaadin.data.util.sqlcontainer.TemporaryRowId;
import com.vaadin.data.util.sqlcontainer.query.generator.StatementHelper;
import fi.paatti.paattidatabaseutils.names.PaattiColumnNames;
import fi.paatti.paattidatabaseutils.names.PaattiTableNames;
import java.sql.*;

/**
 * A delegate for CHOICE-table.
 */
* @author Lauri Satokangas, lauri.n.satokangas@student.jyu.fi
* @since 0.0.3
*/
public class ChoiceQueryDelegate extends PaattiQueryDelegate {
    private static final long serialVersionUID = 1L;
    private final Object eventId;

    /**
     * Constructor.
     */
    * @param eventId The ID of the event.
    */
    public ChoiceQueryDelegate(Object eventId) {
        super(PaattiTableNames.CHOICE, PaattiColumnNames.CHOICE_choiceID,
            PaattiColumnNames.getColumnNamesInArray(PaattiTableNames.CHOICE));
        this.eventId = eventId;
    }

    /**
     * {@inheritDoc}
     */
    @Override
    public int storeRow(Connection conn, RowItem row) throws SQLException {
        PreparedStatement storeStatement;
        StringBuilder querySb = new StringBuilder();
        int retval;

        if (row.getId() instanceof TemporaryRowId) {
            querySb.append(getInsertQueryString());
            storeStatement = conn.prepareStatement(querySb.toString(), Statement.RETURN_GENERATED_KEYS);
            setRowValues(storeStatement, row);
            retval = storeStatement.executeUpdate();
        }
    }
}
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ResultSet generatedKeys = storeStatement.getGeneratedKeys();

if (generatedKeys.first()) {
    Object object = generatedKeys.getObject(1);

    fireNewRowIdEvent(object);
} else {
    querySb.append(getUpdateQueryString());
    storeStatement = conn.prepareStatement(querySb.toString());
    storeStatement.setInt(7, (Integer) row.getItemProperty(PaattiColumnNames.CHOICE_choiceID).getValue());
    setRowValues(storeStatement, row);
    retval = storeStatement.executeUpdate();
}

storeStatement.close();
return retval;
}

/**
 * {@inheritDoc}
 */
@Override
protected void setRowValues(PreparedStatement statement, RowItem row) throws SQLException {
    statement.setString(1, row.getItemProperty(PaattiColumnNames.CHOICE_rowStatus).toString());
    statement.setInt(2, (Integer) row.getItemProperty(PaattiColumnNames.CHOICE_TASK_leadsto_taskID).getValue());
    statement.setInt(3, (Integer) row.getItemProperty(PaattiColumnNames.CHOICE_TASK_contains_taskID).getValue());
    statement.setInt(4, (Integer) row.getItemProperty(PaattiColumnNames.CHOICE_value).getValue());
    statement.setInt(5, (Integer) row.getItemProperty(PaattiColumnNames.CHOICE_sequence).getValue());
    statement.setString(6, (String) row.getItemProperty(PaattiColumnNames.CHOICE_description).getValue());
}

/**
 * Returns a new StatementHelper containing the SELECT query statement.
 *
 * @param offset the starting row.
 * @param limit the number of rows to get.
 * @return The StatementHelper containing the SELECT query.
 * @throws UnsupportedOperationException.
 */
public StatementHelper getQueryStatement(int offset, int limit) throws UnsupportedOperationException {
    StatementHelper queryHelper = new StatementHelper();

    queryHelper.setQueryString(createQueryString(queryHelper, offset, limit));
    return queryHelper;
}
```

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/**
 * Creates the SELECT query statement.
 *
 * @param queryHelper
 * @param offset Starting row.
 * @param limit Number of rows to get.
 * @return The SELECT query string.
 */
private String createQueryString(StatementHelper queryHelper, int offset, int limit) {
    StringBuilder querySb = new StringBuilder();

    querySb.append(" SELECT ").append(getArrayAsStringWithCommas(getColumnNames())).append(" FROM ").append(
        PaattiTableNames.CHOICE);
    querySb.append(" LEFT OUTER JOIN ").append(PaattiTableNames.TASK).append(" ON ");
    querySb.append(PaattiColumnNames.TASK_taskID).append(" = ").append(PaattiColumnNames.CHOICE_TASK_contains_taskID);
    querySb.append(" WHERE ").append(PaattiColumnNames.TASK_EVENT_eventID).append(" = ").append(eventId);
    // Add possible filters.
    if (getFilters() != null) {
        querySb.append(getFilterStringWithoutWhere(queryHelper, true));
    }
    querySb.append(" AND ").append(PaattiColumnNames.TASK_rowStatus).append(" = '").append(ROWSTATUS_ACTIVE).append("'");
    querySb.append(" AND ").append(PaattiColumnNames.CHOICE_rowStatus).append(" = '").append(ROWSTATUS_ACTIVE).append(
        "'");
    if (offset != -1 && limit != -1) {
        querySb.append(" LIMIT ").append(offset).append(", ").append(limit);
    }
    return querySb.toString();
}

/**
 * {@inheritDoc}
 */
@Override
public StatementHelper getCountStatement() throws UnsupportedOperationException {
    StatementHelper countHelper = new StatementHelper();
    StringBuilder querySb = new StringBuilder("SELECT COUNT(*) FROM (");

    querySb.append(createQueryString(countHelper, -1, -1)).append(") as COUNT");
    countHelper.setQueryString(querySb.toString());
    return countHelper;
}
}

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