

```
package fi.paatti.paattidatabaseutils.names;

import java.lang.reflect.Field;
import java.util.ArrayList;

/**
 * The column names used by the application's database.
 * <p/>
 * @author Lauri Satokangas, lauri.n.satokangas@student.jyu.fi
 * @since 0.0.2
 */
public class PaattiColumnNames {

    public static final String ADMINISTRERS_editTime = "ADMINISTERS_editTime";
    public static final String ADMINISTRERS_description = "ADMINISTERS_description";
    public static final String ADMINISTRERS_USER_userID = "ADMINISTERS_USER_userID";
    public static final String ADMINISTRERS_EVENT_eventID = "ADMINISTERS_EVENT_eventID";
    public static final String ADMINISTRERS_rowStatus = "ADMINISTERS_rowStatus";
    public static final String BELONGS_rowStatus = "BELONGS_rowStatus";
    public static final String BELONGS_USER_userID = "BELONGS_USER_userID";
    public static final String BELONGS_USERGROUP_usergroupID = "BELONGS_USERGROUP_usergroupID";
    public static final String BELONGS_editTime = "BELONGS_editTime";
    public static final String BINARYDATA_rowStatus = "BINARYDATA_rowStatus";
    public static final String BINARYDATA_TASKDATA_taskDataID = "BINARYDATA_TASKDATA_taskDataID";
    public static final String BINARYDATA_sequence = "BINARYDATA_sequence";
    public static final String BINARYDATA_binarydataID = "BINARYDATA_binarydataID";
    public static final String CHOICE_rowStatus = "CHOICE_rowStatus";
    public static final String CHOICE_TASK_leadsto_taskID = "CHOICE_TASK_leadsto_taskID";
    public static final String CHOICE_TASK_contains_taskID = "CHOICE_TASK_contains_taskID";
    public static final String CHOICE_value = "CHOICE_value";
    public static final String CHOICE_sequence = "CHOICE_sequence";
    public static final String CHOICE_description = "CHOICE_description";
    public static final String CHOICE_choiceID = "CHOICE_choiceID";
    public static final String EVENT_rowStatus = "EVENT_rowStatus";
    public static final String EVENT_EVENTTIME_eventTimeID = "EVENT_EVENTTIME_eventTimeID";
    public static final String EVENT_EVENTTYPE_eventTypeID = "EVENT_EVENTTYPE_eventTypeID";
    public static final String EVENT_SCHEDULE_scheduleID = "EVENT_SCHEDULE_scheduleID";
    public static final String EVENT_origEventID = "EVENT_origEventID";
    public static final String EVENT_status = "EVENT_status";
    public static final String EVENT_estimatedTime = "EVENT_estimatedTime";
    public static final String EVENT_description = "EVENT_description";
    public static final String EVENT_title = "EVENT_title";
    public static final String EVENT_eventID = "EVENT_eventID";
    public static final String EVENTSTATUS_status = "EVENTSTATUS_status";
```

```
public static final String EVENTSTATUS_eventStatusID = "EVENTSTATUS_eventStatusID";
public static final String EVENTTIME_rowStatus = "EVENTTIME_rowStatus";
public static final String EVENTTIME_hoursLeft = "EVENTTIME_hoursLeft";
public static final String EVENTTIME_fromHour = "EVENTTIME_fromHour";
public static final String EVENTTIME_week = "EVENTTIME_week";
public static final String EVENTTIME_minute = "EVENTTIME_minute";
public static final String EVENTTIME_weekday = "EVENTTIME_weekday";
public static final String EVENTTIME_day = "EVENTTIME_day";
public static final String EVENTTIME_month = "EVENTTIME_month";
public static final String EVENTTIME_year = "EVENTTIME_year";
public static final String EVENTTIME_absolute = "EVENTTIME_absolute";
public static final String EVENTTIME_eventTimeID = "EVENTTIME_eventTimeID";
public static final String EVENTTYPE_rowStatus = "EVENTTYPE_rowStatus";
public static final String EVENTTYPE_description = "EVENTTYPE_description";
public static final String EVENTTYPE_eventTypeID = "EVENTTYPE_eventTypeID";
public static final String RESEARCH_researchID = "RESEARCH_researchID";
public static final String RESEARCH_description = "RESEARCH_description";
public static final String RESEARCH_name = "RESEARCH_name";
public static final String RESEARCH_rowStatus = "RESEARCH_rowStatus";
public static final String ROLE_rowStatus = "ROLE_rowStatus";
public static final String ROLE_description = "ROLE_description";
public static final String ROLE_name = "ROLE_name";
public static final String ROLE_roleID = "ROLE_roleID";
public static final String SCHEDULE_USERGROUP_usergroupID = "SCHEDULE_USERGROUP_usergroupID";
public static final String SCHEDULE_description = "SCHEDULE_description";
public static final String SCHEDULE_rowStatus = "SCHEDULE_rowStatus";
public static final String SCHEDULE_zeroTime = "SCHEDULE_zeroTime";
public static final String SCHEDULE_scheduledID = "SCHEDULE_scheduledID";
public static final String TASK_rowStatus = "TASK_rowStatus";
public static final String TASK_TASKTYPE_taskTypeID = "TASK_TASKTYPE_taskTypeID";
public static final String TASK_EVENT_eventID = "TASK_EVENT_eventID";
public static final String TASK_sequence = "TASK_sequence";
public static final String TASK_url = "TASK_url";
public static final String TASK_content = "TASK_content";
public static final String TASK_description = "TASK_description";
public static final String TASK_taskID = "TASK_taskID";
public static final String TASK_posX = "TASK_posX";
public static final String TASK_posY = "TASK_posY";
public static final String TASKDATA_rowStatus = "TASKDATA_rowStatus";
public static final String TASKDATA_CHOICE_choiceID = "TASKDATA_CHOICE_choiceID";
public static final String TASKDATA_USER_userID = "TASKDATA_USER_userID";
public static final String TASKDATA_sequence = "TASKDATA_sequence";
public static final String TASKDATA_executionTime = "TASKDATA_executionTime";
public static final String TASKDATA_taskDataID = "TASKDATA_taskDataID";
public static final String TASKTYPE_rowStatus = "TASKTYPE_rowStatus";
public static final String TASKTYPE_binarydataMax = "TASKTYPE_binarydataMax";
```

```

public static final String TASKTYPE_textMax = "TASKTYPE_textMax";
public static final String TASKTYPE_textMin = "TASKTYPE_textMin";
public static final String TASKTYPE_binarydataMin = "TASKTYPE_binarydataMin";
public static final String TASKTYPE_description = "TASKTYPE_description";
public static final String TASKTYPE_taskTypeID = "TASKTYPE_taskTypeID";
public static final String TEXT_textID = "TEXT_textID";
public static final String TEXT_sequence = "TEXT_sequence";
public static final String TEXT_TASKDATA_taskDataID = "TEXT_TASKDATA_taskDataID";
public static final String TEXT_rowStatus = "TEXT_rowStatus";
public static final String TEXTDATA_rowStatus = "TEXTDATA_rowStatus";
public static final String TEXTDATA_data = "TEXTDATA_data";
public static final String TEXTDATA_TASKDATA_taskDataID = "TEXTDATA_TASKDATA_taskDataID";
public static final String TEXTDATA_sequence = "TEXTDATA_sequence";
public static final String TEXTDATA_textDataID = "TEXTDATA_textDataID";
public static final String USER_rowStatus = "USER_rowStatus";
public static final String USER_description = "USER_description";
public static final String USER_password = "USER_password";
public static final String USER_name = "USER_name";
public static final String USER_firstName = "USER_firstName";
public static final String USER_lastName = "USER_lastName";
public static final String USER_userID = "USER_userID";
public static final String USERGROUP_ROLE_roleID = "USERGROUP_ROLE_roleID";
public static final String USERGROUP_RESEARCH_researchID = "USERGROUP_RESEARCH_researchID";
public static final String USERGROUP_editTime = "USERGROUP_editTime";
public static final String USERGROUP_editedBy = "USERGROUP_editedBy";
public static final String USERGROUP_description = "USERGROUP_description";
public static final String USERGROUP_name = "USERGROUP_name";
public static final String USERGROUP_usergroupID = "USERGROUP_usergroupID";
public static final String USERGROUP_rowStatus = "USERGROUP_rowStatus";

/**
 * Returns the table column names as a list of strings.
 * <p/>
 * @param tableName The name of the table.
 */
public static ArrayList<String> getColumnNames(String tableName) {
    ArrayList<String> columnNames = new ArrayList<String>();

    Class<PaattiColumnNames> paattiColumns = PaattiColumnNames.class;
    Field[] fields = paattiColumns.getFields();

    StringBuilder removableString;
    String columnName;

    for (int i = 0; i < fields.length; i++) {

```

```
removableString = new StringBuilder("public static final java.lang.String ");
removableString.append(paattiColumns.getName()).append(".");

columnName = fields[i].toString();
columnName = columnName.replace(removableString.toString(), "");

if (columnName.startsWith(tableName + "_") {
    columnNames.add(columnName);
}

return columnNames;
}

/**
 * Returns the table column names as a string array.
 * <p/>
 * @param tableName the name of the table.
 * @return The column names in an array.
 */
public static String[] getColumnNamesInArray(String tableName) {
    ArrayList<String> columnNames = getColumnNames(tableName);
    String[] columnNamesArray = new String[columnNames.size()];

    return columnNames.toArray(columnNamesArray);
}

/*
 * Does nothing.
 */
private PaattiColumnNames() {}
}
```