

Intellij Entity

- description :
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```
import com.intellij.database.model.DasTable
import com.intellij.database.model.ObjectKind
import com.intellij.database.util.Case
import com.intellij.database.util.DasUtil
import com.intellij.psi.codeStyle.NameUtil

import javax.swing.*

/**
 * @author shirohoo
 * @link https://github.com/shirohoo/create-automation-jpa-entity
 * @param packageName , primaryKey
 *
 * <pre>
 *
 *     this script's default primary key strategy is
 * @GeneratedValue(strategy = GenerationType.IDENTITY)
 *     and specialized in Microsoft SQL Server
 *     and finally implemented Serializable so recommend that create serial
 * version UID
 *
 *     first. enter your project package name. for example:
 *     > com.intelliJ.psi
 *
 *     second. enter primary key column name of target database table.
 *     this script is convert input to camel case. for example 1:
 *     > table primary key column name = MEMBER_ID
 *     > enter primary key = memberId
 *
 *     example 2:
 *     > table primary key column name = ID
 *     > enter primary key = id
 *
 * </pre>
 */

columnType = [
    (~( ?i) bigint/)      : "Long",
    (~( ?i) int/)         : "Integer",
    (~( ?i) bit/)         : "Boolean",
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    (~/(?i)decimal/)      : "BigDecimal",
    (~/(?i)float|double|real/) : "Double",
    (~/(?i)datetime|timestamp/) : "LocalDateTime",
    (~/(?i)time/)          : "LocalTime",
    (~/(?i)date/)          : "LocalDate",
    (~/(?i)nvarchar/)      : "nvarchar",
    (~/(?i)varchar/)       : "varchar",
    (~/(?i)char/)          : "String",
    (~/(?i)text/)          : "String"
  ]
def input = {
  JFrame jframe = new JFrame()
  String answer = JOptionPane.showInputDialog(jframe, it)
  jframe.dispose()
  answer
}
packageName = input("Enter your package name")
primaryKey = input("Enter column name of primary key")
FILES.chooseDirectoryAndSave("Choose directory", "Choose where to store
generated files") { dir ->
  SELECTION.filter {
    it instanceof DasTable && it.getKind() == ObjectKind.TABLE
  }.each {
    generate(it, dir)
  }
}

def generate(table, dir) {
  def tableName = table.getName()
  def className = convertFieldName(tableName + "Entity", true)
  def fields = categorizeFields(table)
  new File(dir, className + ".java").withPrintWriter {
    out -> generate(out, tableName, className, fields)
  }
}

def generate(out, tableName, className, fields) {
  out.println "package $packageName;"
  out.println ""
  out.println "import javax.persistence.*;"
  out.println "import java.time.LocalDateTime;"
  out.println "import lombok.Data;"
  out.println ""
  out.println "@Entity"
  out.println "@Data"
  out.println "@Table(name = \"$tableName\")"
  out.println "public class $className"
  out.println "{"
  fields.each() {
    if (it.annos != "") {
      out.println "    ${it.annos}"
    }
  }
}

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    }
    if (it.name == primaryKey) {
        out.println "    @Id"
        out.println "    @GeneratedValue(strategy =
GenerationType.IDENTITY)"
    }
    if (it.type == 'nvarchar') {
        out.println "    @Nationalized"
        out.println "    @Column(name = \"${it.colName}\")"
        out.println "    private String ${it.name};"
    } else if (it.type == 'varchar') {
        out.println "    @Column(name = \"${it.colName}\")"
        out.println "    private String ${it.name};"
    } else {
        out.println "    @Column(name = \"${it.colName}\")"
        out.println "    private ${it.type} ${it.name};"
    }
    out.println ""
}
out.println "}"
}

def categorizeFields(table) {
    DasUtil.getColumns(table).reduce([]) { fields, col ->
        def spec = Case.LOWER.apply(col.getDataType().getSpecification())
        def typeStr = columnType.find {
            p, t -> p.matcher(spec).find()
        }.value
        fields += [[
                                colName: col.getName(),
                                name      : convertFieldName(col.getName(), false),
                                type      : typeStr,
                                annos     : ""]]
    }
}

def convertFieldName(str, capitalize) {
    def s = NameUtil.splitNameIntoWords(str)
        .collect {
            Case.LOWER.apply(it).capitalize()
        }
        .join("")
        .replaceAll(/^[^p{javaJavaIdentifierPart}[_]]/, "_")
    capitalize || s.length() == 1 ? s : Case.LOWER.apply(s[0]) + s[1..-1]
}

```

Tip

Troubleshooting

Ref

[JPA] Entity

, [Entity](#), [Intellij](#), , ,

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