**

*InnoProduct*

*Repository Specification*

**InnoProduct v5.1**



InnoProduct Version 5.1 Copyright © 2007-2016 INNORULES Corporation. All rights reserved.

InnoProduct® and InnoRules® are registered trademarks of INNORULES Corporation.

**Table of Contents**

[1. Table Definition 3](#_Toc16256922)

[1.1 OBJ1000 3](#_Toc16256923)

[1.2 OBJ1100 4](#_Toc16256924)

[1.3 OBJ1110 4](#_Toc16256925)

[1.4 OBJ1200 5](#_Toc16256932)

[1.5 OBJ\_MAIN 6](#_Toc16256933)

[1.6 OBJ\_DETAIL 7](#_Toc16256944)

[1.7 OBJREL\_INC 8](#_Toc16256945)

[1.8 OBJINV\_TYPE 8](#_Toc16256946)

[1.9 OBJ\_INV 9](#_Toc16256947)

[1.10 Table common column 10](#_Toc16256948)

# Table Definition

The data type of the table is created based on ORACLE. In the case of DB2, the data type is switched according to the following rules. Commonly stored columns are defined separately in “1.10 Table common columns”.

[Table 1]

|  |  |  |
| --- | --- | --- |
| ORACLE | DB2 | Remarks |
| NUMBER | DECIMAL | When the number of digits is defined in ORACLE (example) NUMBER(10,2) |
| NUMBER | INTEGER | When the number of digits is not defined in ORACLE |
| VARCHAR2 | VARCHAR |  |
| NVARCHAR2 | NVARCHAR |  |

## OBJ1000

[Table 2]

| Column Name | Description | Remarks | Data Type |
| --- | --- | --- | --- |
| TYPEID | Type Id |  | NUMBER |
| NAME | Type Name |  | NVARCAHR2 |
| TYPE\_GBN | Code Values that distinguish Object for example, Type, Table Property, Service View | 0: Allowed Value  1: Type  5: Table Property  6: Service View | NUMBER |
| POOL\_KBN | Unused |  | NUMBER |
| IMG\_KBN | Unused |  | NUMBER |
| REL\_KBN | Code Values that distinguish Type. For Example, Type, Relational Type | 1: Type  2: Relational Type | NUMBER |
| R19\_1 | Unused |  | NUMBER |
| R10\_1 | Code value of the item automatically stored in RuleBuilder. The object type is registered with the code value of the item as $ P\_'product name'. | Item Code Value | CHAR |
| BUNDLE\_KBN | Not used in current version |  | NUMBER |
| CODE\_SQL | Not used in current version |  | NVARCHAR2 |
| CODE\_KBN | Code generation rules | 0: Automatic  1: Manual | NUMBER |
| RULE\_ID | Unused |  | CHAR |
| CODE\_SIZE | Number of digits of object code generated by the corresponding type |  | NUMBER |
| PTYPEID | Upper level type ID when it is a semi-Type | TYPEID stored in OBJ1000 | NUMBER |
| DISP\_ORDER | Screen display order |  | NUMBER |
| DUP\_KBN | Whether duplicate names are allowed | 0: No  1: Yes | NUMBER |
| MAPPING\_CD | Upper level type ID when it is a table property | TYPEID stored in OBJ1000 | VARCHAR2 |

## OBJ1100

[Table 3]

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Description | Remarks | Data Type |
| TYPEID | Type id of the corresponding type | TYPEID stored in OBJ1000 | NUMBER |
| GROUPSEQ | The Sequential Number of Attribute Group |  | NUMBER |
| GROUPNAME | Attribute Group Name |  | NVARCHAR2 |
| DISP\_ORDER | Display Order |  | NUMBER |

## OBJ1110

[Table 4]

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Description | Remarks | Data Type |
| TYPEID | Type id of the type linked with Attribute group | TYPEID stored in OBJ1000 | NUMBER |
| GROUPSEQ | The sequential number of attribute group linked with type | SEQ of attribute group stored in OBJ1100 | NUMBER |
| SEQ | Sequential Number |  | NUMBER |
| ITEMID | Attribute ID linked to type and attribute group | ITEMID stored in OBJ1200 | NUMBER |
| DISP\_ORDER | Display Order |  | NUMBER |

## OBJ1200

[Table 5]

| Column Name | Description | Remarks | Data Type |
| --- | --- | --- | --- |
| ITEMID | Attribute ID |  | NUMBER |
| R19\_1 | The history code of Attribute. Always 0 |  | NUMBER |
| R10\_1 | Attribute Code |  | CHAR |
| PROP\_TYPE | Code Values that distinguish Item values. For Example, Single, Multi, Rule Type, Range Type | 1: Single  2: Multi  3: Rule Type  4: Range Type | CHAR |
| DISP\_NAME | Attribute name displayed on the screen |  | NVARCHAR2 |
| DISP\_TYPE | Type of attribute displayed on the screen | 1: TEXT BOX  2: COMBO BOX  3: CHECK BOX  5: DATE | CHAR |
| PHY\_COLUMN1 | Column name of OBJ\_DETAIL table where attributes are stored |  | VARCHAR2 |
| PHY\_COLUMN2 | Column name of the OBJ\_DETAIL table where attributes are stored (used only for range type) |  | VARCHAR2 |
| ITEM\_ID | Item code for displaying allowed values for attributes |  | CHAR |
| RULE\_ID | Unused |  | CHAR |
| DEC\_SIZE | Unused |  | NUMBER |
| PER\_SIZE | Unused |  | NUMBER |
| DATA\_TYPE | Code Values that distinguish data types. | 1: Numeric Type  2: Character Type | NUMBER |
| ALIAS | Alias for attribute |  | NVARCHAR2 |
| DISP\_ORDER | Display Order |  | NUMBER |
| R10\_DESC | Description |  | NVARCHAR2 |
| RULE\_KBN | Code Values that distinguish Attribute’s extra type. For examples, Execution Rule and Input Item. | 0: None  1: Input Item  2: Execution Rule | NUMBER |
| GROUPSEQ | Unused |  | NUMBER |
| VKEY\_GROUPSEQ | Unused |  | NUMBER |
| CODE\_ORDER | Display order when attributes are used for code numbering |  | NUMBER |
| READ\_ONLY | Read-only setting |  | CHAR |
| REQ\_YN | Required setting |  | CHAR |
| DEFAULT\_VAL | Default Value |  | NUMBER |
| R13\_1 | Business Group Id |  | NUMBER |

## OBJ\_MAIN

[Table 6]

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Description | Remarks | Data Type |
| SID | Object ID that is generated in OBJ\_MAIN table |  | NUMBER |
| BIZCODE | Object Code that is generated in OBJ\_MAIN table |  | VARCHAR2 |
| VERCODE | Unused |  | VARCHAR2 |
| TYPEID | Type ID |  | NUMBER |
| R19\_1 | The history code of Attribute. Always 0 |  | NUMBER |
| R10\_1 | Item Code |  | CHAR |
| OBJ\_NAME | Object Name |  | NVARCHAR2 |
| OBJ\_ENG\_NAME | Object English Name |  | NVARCHAR2 |
| OBJ\_ALIAS | Object English Alias |  | NVARCHAR2 |
| OBJ\_DESC | Description |  | NVARCHAR2 |
| DISP\_ORDER | Display Order |  | NUMBER |
| NUMBER1 | Unused |  | NUMBER |
| NUMBER2 | Unused |  | NUMBER |
| NUM\_INC | Unused |  | NUMBER |
| OPCODE1 | Unused |  | CHAR |
| OPCODE2 | Unused |  | CHAR |

## OBJ\_DETAIL

[Table 7]

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Description | Remarks | Data Type |
| SID | Object ID |  | NUMBER |
| KIND | Code Values that distinguish target data to store | 1: Attribute  Other: TYPEID of Table Property | NUMBER |
| SEQ | Sequence |  | NUMBER |
| ROLE\_TYPE | Unused |  | NUMBER |
| DESC01~02 | The actual data value of the specified attribute is saved. It is saved to Column (for example, DESC01, DESC02) defined in PHY\_COLUMN1 of OBJ1200. |  | VARCHAR2 |
| CHAR01~300 | The actual data value of the specified attribute is saved. It is saved to Column (for example, CHAR01, CHAR02) defined in PHY\_COLUMN1, 2 of OBJ1200. |  | VARCHAR2 |
| TEXT01~40 | The actual data value of the specified attribute is saved. It is saved to Column (for example, TEXT01, TEXT02) defined in PHY\_COLUMN1 of OBJ1200. |  | VARCHAR2 |

## OBJREL\_INC

[Table 8]

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Description | Remarks | Data Type |
| MULTIID | Item’s Id which has multiple value. |  | NUMBER |
| SEQ | Sequence |  | NUMBER |
| TYPE\_GBN | Unused |  | NUMBER |
| SID | SID of Allowed Value |  | NUMBER |
| TEXT01~05 | Unused |  | VARCHAR2 |
| DISP\_SEQ | Display Order |  | NUMBER |
| OBJ\_DESC | Unused |  | VARCHAR2 |

## OBJINV\_TYPE

[Table 9]

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Description | Remarks | Data Type |
| INV\_TYPE | Relational Type ID |  | NUMBER |
| TYPE\_GBN | Code Values that distinguish relation. For example, normal relation(Tree structure), Relational Rule, Service View. | 1: Normal Relation  4: Relational Rule  6: Service View | NUMBER |
| INV\_PROP | Unused |  | NUMBER |
| BIZCODE | Relational Type Code |  | VARCHAR2 |
| TYPE\_NAME | Relational Type Name |  | NVARCHAR2 |
| DISP\_SEQ | Display Order |  | NUMBER |

## OBJ\_INV

[Table 10]

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Description | Remarks | Data Type |
| INV\_TYPE | Relational Type ID | ID stored in OBJINV\_TYPE | NUMBER |
| SID | ID of the upper level object | SID stored in OBJ\_MAIN | NUMBER |
| SUBSID | ID of the lower level object | SID stored in OBJ\_MAIN | NUMBER |
| SEQ | Sequence |  | NUMBER |
| DISP\_SEQ | Display Order |  | NUMBER |
| PROP\_SID | ID of Relational Object that is created when generating relation | SID stored in OBJ\_MAIN | NUMBER |
| SET\_SEQ | Order for distinguishing the same information when generating relational rules |  | NUMBER |
| BASIS | Code Values for distinguishing whether or not it is an object that works as the criteria when generating a relational rule | 0: not criteria  1: criteria | NUMBER |
| BASIS\_YN | Code Values for distinguishing whether or not there is criteria when generating relation rules | Y: has criteria  N: has not criteria | CHAR |
| REL\_DESC | Description for the relation |  | NVARCHAR2 |
| RULEID | Rule ID of condition rule when relation rule defined condition rule |  | CHAR |

## Table common column

[Table 11]

|  |  |  |  |
| --- | --- | --- | --- |
| Column Name | Description | Remarks | Data Type |
| VF\_DT | Effective start date | YYYYMMDD | VARCHAR2 |
| VT\_DT | Effective end date | YYYYMMDD | VARCHAR2 |
| APPLY\_FLG | Code values that indicating the status of data transfer | N: New Data  A: Transferred Data  E: Data changed after transfer | CHAR |
| CHG\_USER | User that changed the data |  | NVARCHAR2 |
| CHG\_DT | Date that changed the data | YYYYMMDD | VARCHAR2 |
| END\_USER | User that deleted the data |  | NVARCHAR2 |
| END\_DT | Date that deleted the data | YYYYMMDD | VARCHAR2 |
| REG\_USER | User that registered the data |  | NVARCHAR2 |
| REG\_DT | Date that registered the data | YYYYMMDD | VARCHAR2 |
| LAST\_CHG\_DT | Date that last changed the data or Date that transferred from lower rule system. | YYYYMMDD | VARCHAR2 |
| LAST\_CHG\_USER | User that last changed the data or User that transferred from previous rule system. |  | NVARCHAR2 |
| OK\_DT | Date data was approved | YYYYMMDD | VARCHAR2 |
| OK\_USER | User data was approved |  | NVARCHAR2 |
| APPLY\_DT | Date that transferred to upper rule system. | YYYYMMDD | VARCHAR2 |
| APPLY\_USER | User that transferred to upper rule system. |  | NVARCHAR2 |
| OK\_FLAGS | Data approval status |  | VARCHAR2 |