



3 KRISTAL

KRISTAL



()

2007.4.11



1.KRISTAL

2.KRISTAL

1. KRISTAL

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2004

- 가
- 가
- KRISTAL

2005

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-
- 가

2006

- 가
-
-
- ()

2007

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- -
- , ,
- , ,

1. KRISTAL

2004

V0.9.4 V1.1.14

hv_table HANJA2HANGUL.TBL
 Dictionary.xml 가
 /
 CreateUserArea 가
 alias, use-index-bigram 가

XML

XML PLAIN DB
 (nodeRelation,nodeInclusion)
 SELF-TEXT 가
 MergeSectionList 가
 Path , * 가 XPath

 Display_t Type 가
 integrate_retrieve_t Type
 가
 가 API 가
 (BROWE_ALL_DOCUMENT)

가
 Group by 가

2005

V1.1.14 V2.0

/ 가
 가 DB 가

()

XML

Kconverter 가

Near Within

가

DB
 DB DB

1. KRISTAL -

2006

2007

V2.0 V3.0

V3.0

OPTIMIZING
가

가, ,
DB

2. KRISTAL



2. KRISTAL



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2. KRISTAL

- DB RDBMS KRISTAL ENGINE
(RDBMS KRISTAL PLAIN TABLE)
- DB KRISTAL ENGINE
- RDBMS **Sync Manager**

- (xml)
- 1. jsp
- 2. jsp kristal.jar
- 3. jsp xml
- 4. jsp xml xml

- 가, ,

1. **Sync Manager** (Insert, Update, Delete)
2. **Sync Manager** Job Queue Thread RDBMS KRISTAL
3. monitoring control(pause, resume)
4. KRISTAL XML

2. KRISTAL



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2. KRISTAL

- 이 IIS ASP ASP kristal ,
- Windows 가 DB 가) (

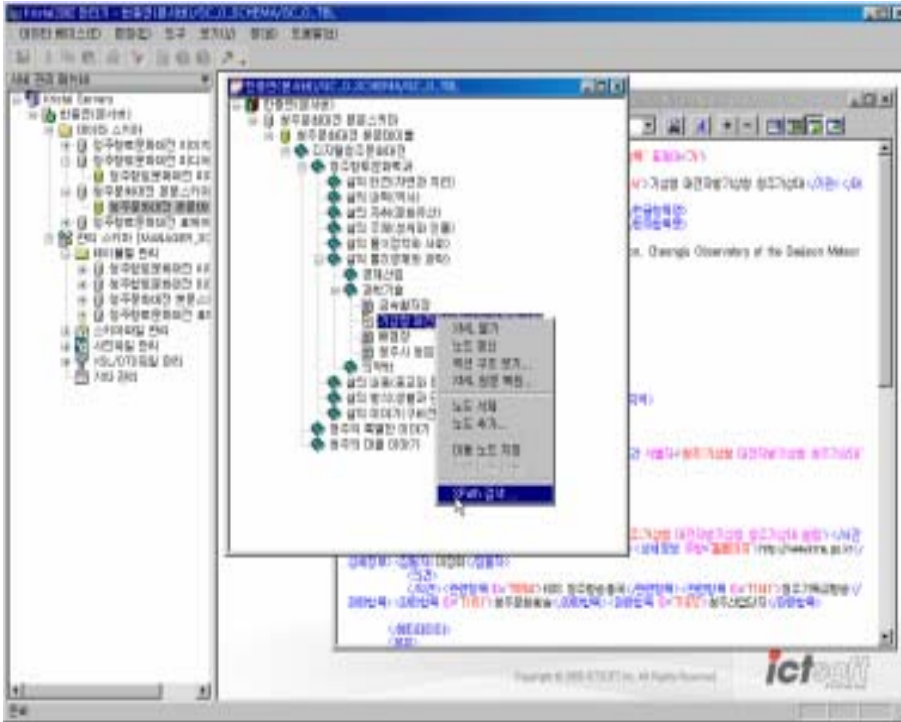
- (xml)
- 1. asp jsp
- 2. jsp kristal.jar
- 3. jsp xml return
- 4. asp xml dom xml

- 가, ,

1. DB (winodws) 가, , Insert
2. (winodw) Http library jsp 가, ,
3. 가, , kristat.jar 가

2. KRISTAL

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가

DTD

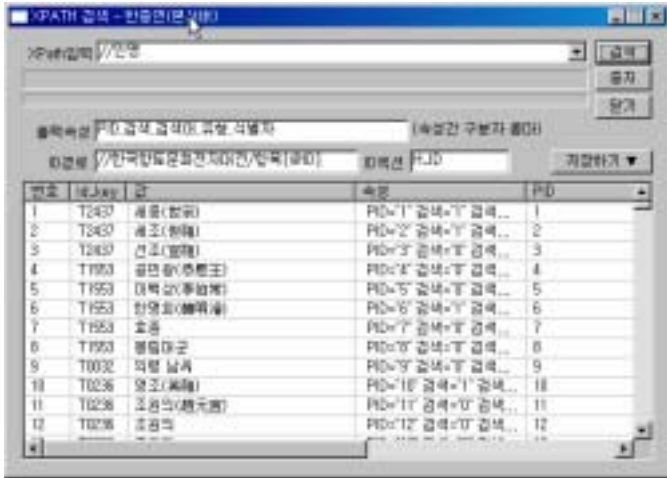
- XML DB Validation

- XML 가 Kconverter

- 가

2. KRISTAL

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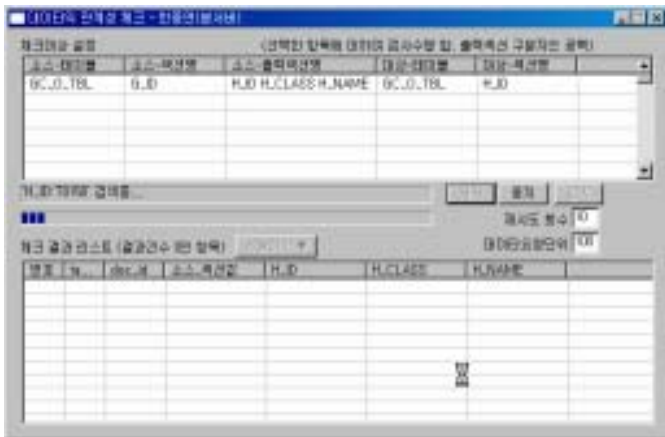


XPATH

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XML
XPATH
XML
가

XML
Client
XPATH



- RDB
)

foreign key

(

