

To create sample application Part - I

Reference:

'Perspectives on Web Services', by
Zimmermann, Tomlinson and Peuser,
published by Springer

Set up environment

- `D:\WSData>echo %JAVA_HOME%`
- `D:\Program Files\IBM\WebSphere Studio\runtimes\base_v5\java`
- Run `setupcloudscape.bat`
- Run `cview.bat`

Set up environment

setupcloudscape.bat

```
set DB2J_INSTALL=D:\Program Files\IBM\WebSphere  
Studio\runtimes\base_v5
```

```
set
```

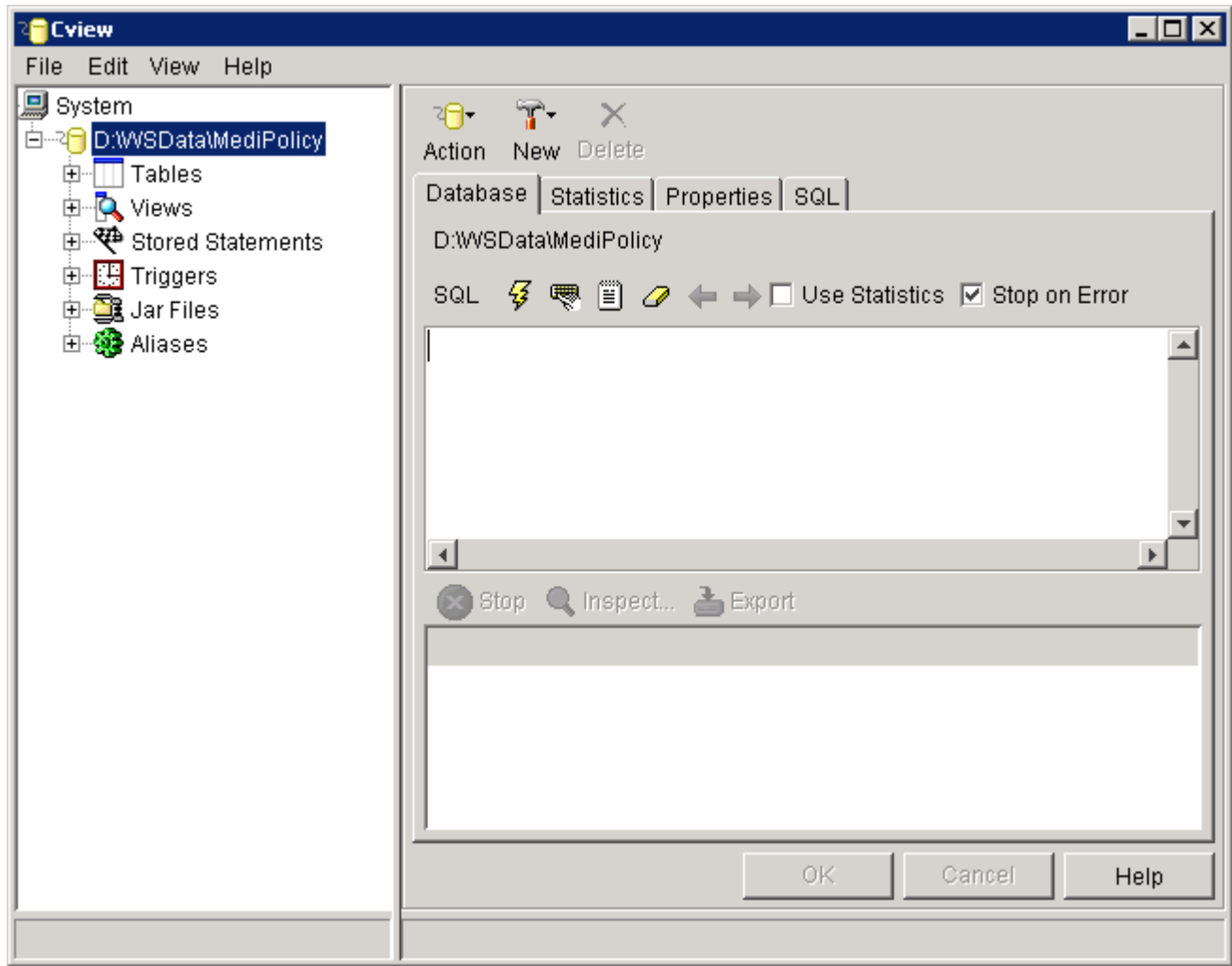
```
CLASSPATH=%DB2J_INSTALL%\lib\db2j.jar;%DB2J_INSTALL%\lib\db2jtools.jar;%DB2J_INSTALL%\lib\db2jcvview.jar;%DB2J_INSTALL%\lib\jh.jar;%CLASSPATH%
```

cvview.bat

```
java -ms32M -mx32M com.ibm.db2j.tools.cvview
```

Create a New Database

- From cloudscape administration tool, select file -> New -> Database
- Enter full path of the directory where you want to create the database, e.g.
d:\WSData\MediPolicy



Create a New Database

- Close the tool by selecting File -> Exit.
- Open the directory and browse thru the structure of the folders created by Cloudscape.
- We will create database tables later from inside Websphere Studio.
- Cloudscape included with WSAD only supports one simultaneous connection at any time.

Create a Project

- Launch WSAD
- Select proper workspace directory, d:\WSAppl
- File -> New -> Enterprise Application Project
- Select J2EE 1.3 Enterprise Application Project, click on next
- Enter project name: MediPolicy
- Deselect Application client module and Web module and select EJB module, click Finish

Enterprise Application Project Creation

Enterprise Application Project

Create an Enterprise Application project containing one or more module projects.



Enterprise application project name:

Use default

Directory:

Which additional module projects would you like to create?

Application client module

Application client project name:

Use default

Directory:

EJB module

EJB project name:

Use default

Directory:

Web module

Web project name:

Use default

< Back

Next >

Finish

Cancel

J2EE - IBM WebSphere Studio Application Developer

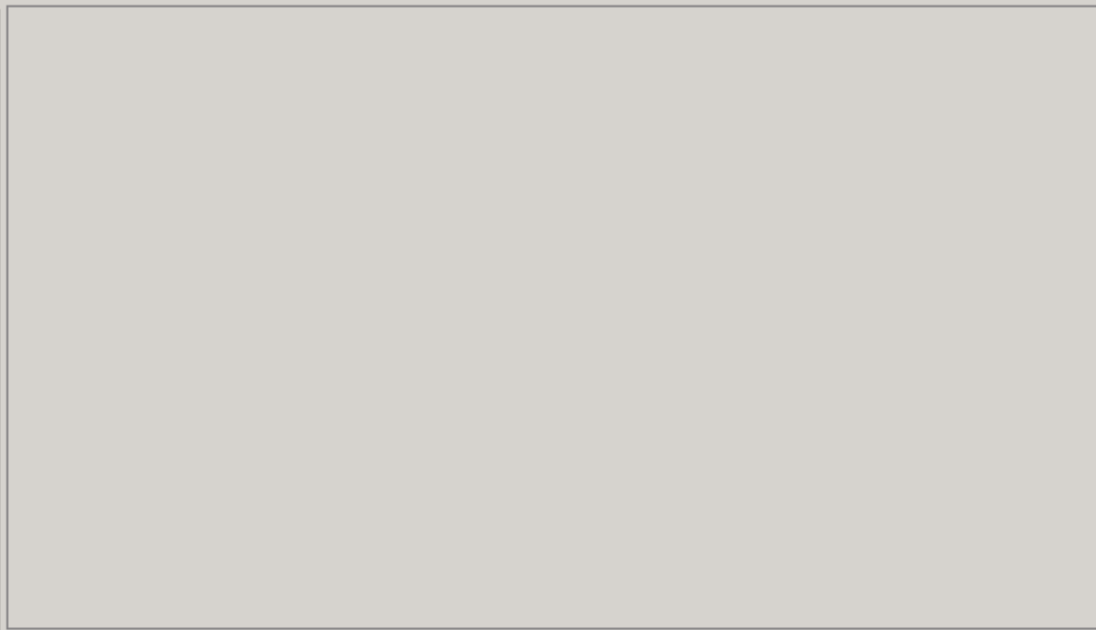
File Edit Navigate Search Project Profile Run ClearCase Window Help



J2EE Hierarchy

- Enterprise Applications
 - MediPolicy (1.3)
 - Application Client Modules
 - Connector Modules
 - Web Modules
- EJB Modules
 - MediPolicyEJB (2.0)
- Databases
- Servers
- Server Configurations

J2EE Hierarchy | J2EE Navigator



Outline

An outline is not available.

Tasks (0 items)

C	!	Description	Resource	In Folder	Location

Tasks | Properties | Servers | Console | DB Servers

EJB-RDBMS Mapping


- Use of EJB 2.0 concepts, local interfaces, CMP 2.0 entity beans, and EJBQL
- Mapping choices:
- Bottom-up: create the database schema first and then generate CMP entity beans from it.
- Top-down: Construct the entity EJBs first and then generate the database schema.

Create database schema

- Open Data perspective
- Right click in the DB servers view, and select New Connection
- Complete the dialog as shown and then click on Finish

New

Database Connection

Establish a JDBC connection to a database. 

Connection name: Establish a JDBC connection to a database.

Database:

User ID:

Password:

Database vendor type:

JDBC driver:

Host:

(Optional) Port number:

Server name:

Database Location:

JDBC driver class:

Class location:

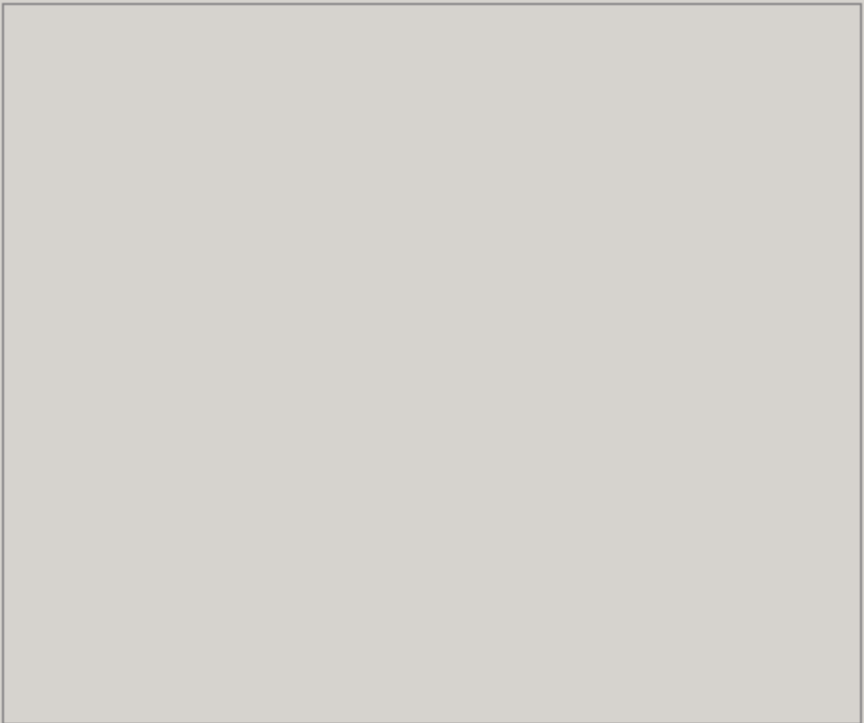
Connection URL:



Data Definition

- MediPolicy
- MediPolicyEJB

Data Definition Navigator



Outline

An outline is not available.

DB Servers

- MediQuotes

Tasks DB Output

Tasks (0 items)

C	!	Description	Resource	In Folder	Location

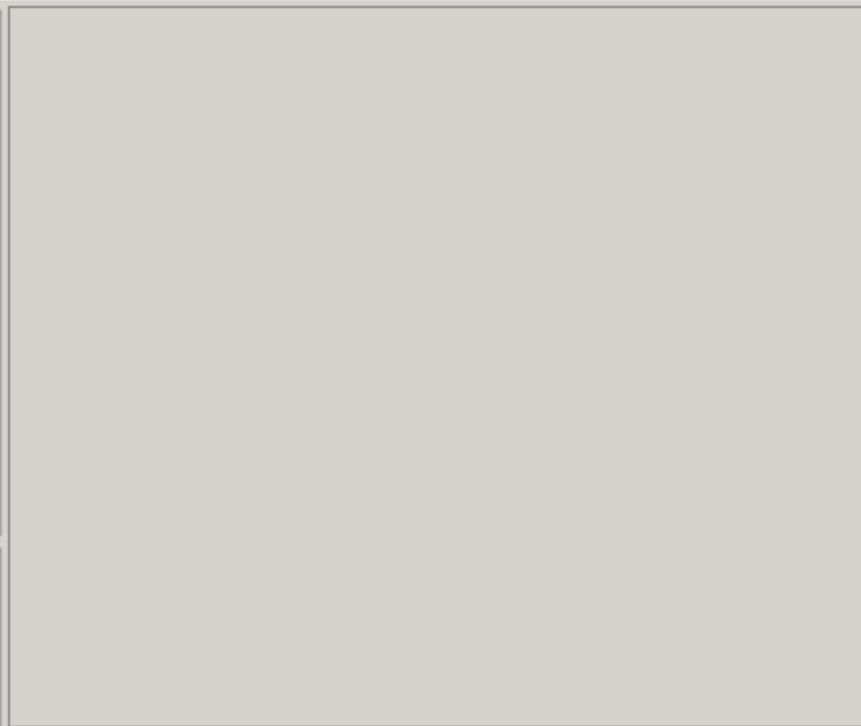
1 item selected.



Data Definition

- MediPolicy
- MediPolicyEJB

Data Definition Navigator



Outline

An outline is not available.

DB Servers

- MediQuotes
 - MediQuotes(jdbc:db2:D:\W
 - APP
 - SYSVISUAL

Tasks (0 items)

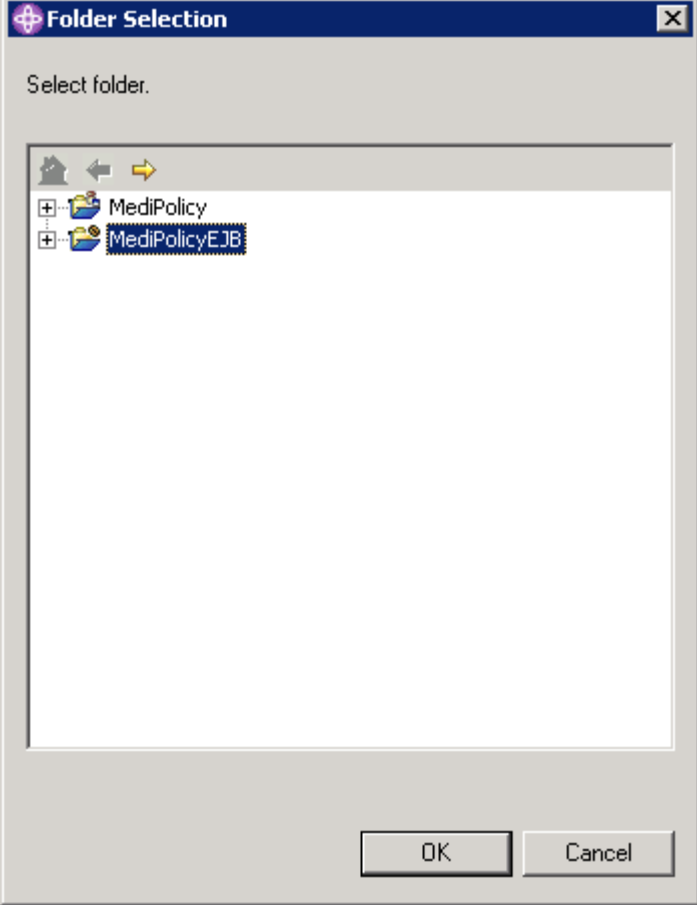
C	!	Description	Resource	In Folder	Location

Tasks DB Output

1 item selected.


- You are returned back to Data perspective and DB servers view now contains MediQuotes connections.
- Right click on the connection and select Import to Folder.
- It will allow us to import initial database metadata into WSAD workspace as XMI (XML Metadata Interchange). We will modify this with the new schema information and export it back to Cloudscape.

- On the Import to Folder dialog, ensure Use default schema folder for EJB projects is selected. Click on Browse and select MediPolicyEJB.
- Click on OK and then Finish.
- Answer Yes if prompted to create the directory.



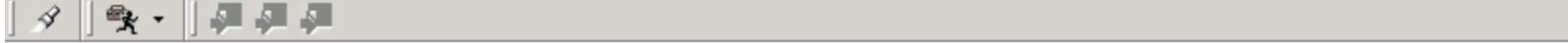
Import

Import to Folder
Import the selected objects.



Folder:

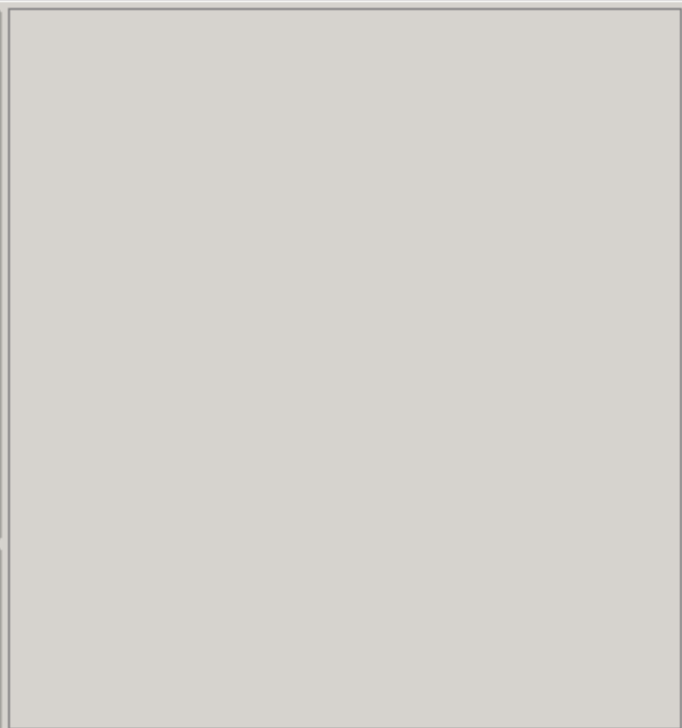
Use default schema folder for EJB projects.



Data Definition

- MediPolicy
 - MediPolicyEJB
 - ejbModule
 - META-INF
 - backends
 - CLOUDSCAPE_V50_1
 - MediQuotes (Cloudscape, V5.0)
 - APP
 - SYSVISUAL
 - Statements

Data Definition Navigator



Outline

An outline is not

DB Servers

- MediQuotes
 - MediQuotes(jdbc:db2j:D:\WSDData\MediPolicy)
 - APP
 - SYSVISUAL

Tasks (0 items)

C	!	Description	Resource	In Folder

Tasks DB Output

- Note that APP and SYSVISUAL are system schemas created by default. Our next step is to create a new POLICY schema definition in the metadata for our new Policy system data:
- In the Data Definition view, select MediQuotes (Cloudscape, V5.0).
- Right-click and Select New -> New Schema Definition.
- Enter a Schema name of POLICY to denote the Policy system. Click Finish.



Data Definition

- MediPolicy
- MediPolicyEJB
 - ejbModule
 - META-INF
 - backends
 - CLOUDSCAPE_V50_1
 - MediQuotes (Cloudscape, V5.0)
 - APP
 - SYSVISUAL
 - Statements

Data Definition Navigator

DB Servers

- MediQuotes
 - MediQuotes(jdbc:db2j:D:\WSDData\MediPolicy)
 - APP
 - SYSVISUAL

New

Schema Definition

Create a new local schema definition.

Folder: Browse...

Database: Browse...

Schema name:

Finish Cancel

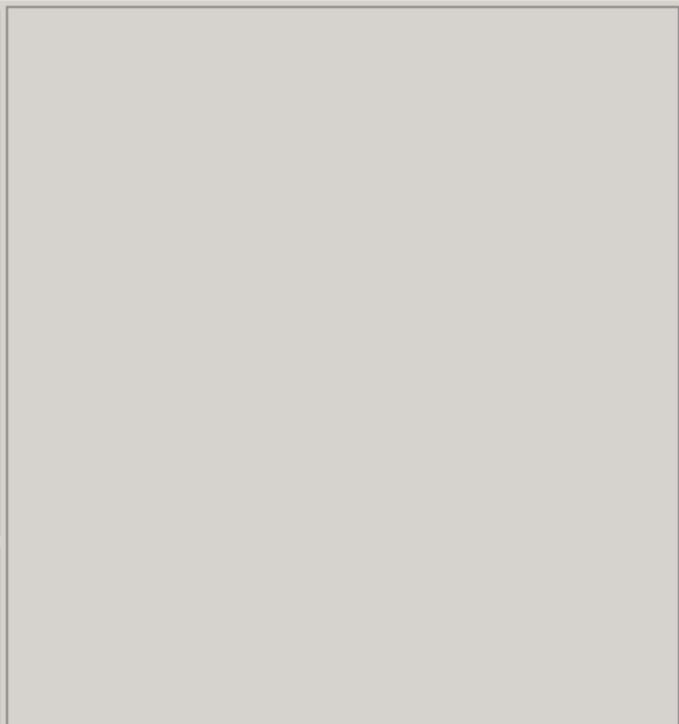
Tasks DB Output



Data Definition

- MediPolicy
 - MediPolicyEJB
 - ejbModule
 - META-INF
 - backends
 - CLOUDSCAPE_V50_1
 - MediQuotes (Cloudscape, V5.0)**
 - APP
 - SYSVISUAL
 - POLICY
 - Statements

Data Definition Navigator



Outline

An outline is not

DB Servers

- MediQuotes
 - MediQuotes(jdbc:db2j:D:\WSData\MediPolicy)
 - APP
 - SYSVISUAL

Tasks (0 items)

C	!	Description	Resource	In Folder

Tasks DB Output

- Now we have a schema, we can define each of our tables using the our data model.
- Expand the POLICY schema and select its Tables folder
- Right-click and select New -> New table definition.
- In the table definition dialog, enter a table name of ADDRESS. Click Next.
- In the Table columns dialog, click on Add Another. Complete the fields of a table, click on Add Another each time you wish to add a new column.
- Note: Use PK_ADDRESS for primary key.



Data Definition

- CLLOUDSCAPE_V50_1
 - MediQuotes (Cloudscape, V5.0)
 - APP
 - SYSVISUAL
 - POLICY
 - Tables**
 - POLICY.ADDRESS
 - ADDRESSID : BIGINT
 - ADDRESS1 : VARCHAR
 - ADDRESS2 : VARCHAR
 - CODE : VARCHAR
 - COUNTRY : VARCHAR
 - Views
 - Aliases

Data Definition Navigator

DB Servers

- MediQuotes
 - MediQuotes(jdbc:db2j:D:\WSData\MediPolicy)
 - APP
 - SYSVISUAL

Outline

An outline is not

Tasks (0 items)

C	!	Description	Resource	In Fold

Tasks DB Output

1 item selected.

New

Table Columns

Add columns to the table.



- Columns
 - CONTACTID
 - TELEPHONE
 - FIRSTNAME
 - LASTNAME
 - TITLE
 - ADDRESS

Column name: ADDRESS

Column type: BIGINT

Default:

Nullable Key column

Add Another Delete

< Back

Next >

Finish

Cancel

New

Primary Key

No non-null columns available for creating a primary key



Primary key name: PK_CONTACT

Source Columns

An empty rectangular box representing the source column list.

Sort

CONTACTID

A rectangular box containing the text 'CONTACTID', representing the target column list.

Sort



< Back

Next >

Finish

Cancel

New

Foreign Keys

Add foreign keys for the table. If you do not name the foreign key, a name will be generated for you.



Foreign Keys

- FK_ADDRESS

Foreign key name:

On Delete

On Update

Target Table

Source Columns

CONTACTID
TELEPHONE
FIRSTNAME
LASTNAME
TITLE



ADDRESS

- Create tables: CONTACT, POLICY and CLAIM as shown in subsequent slides.

New

Table Columns

Add columns to the table.



- Columns
 - POLICYID
 - INSUREDVALUE
 - STARTDATE
 - ENDDATE
 - POLICYHOLDER
 - INSUREDADDRESS

Column name:

Column type:

Default:

Nullable Key column



New

Primary Key

No non-null columns available for creating a primary key

Primary key name:

Source Columns

>

<

>>

<<

POLICYID

< Back Next > Finish Cancel

New

Foreign Keys

Add foreign keys for the table. If you do not name the foreign key, a name will be generated for you.



Foreign Keys

- FK_POLICYHOLD

Navigation: < | >

Foreign key name:

On Delete:

On Update:

Target Table:

Source Columns

POLICYID
INSUREDVALUE
STARTDATE
ENDDATE
INSUREDADDRESS



POLICYHOLDER

New

Foreign Keys

Add foreign keys for the table. If you do not name the foreign key, a name will be generated for you.



- Foreign Keys
 - FK_POLICYHOLD
 - FK_INSUREDADI

Foreign key name:

On Delete

On Update

Target Table

Source Columns

POLICYID
INSUREDVALUE
STARTDATE
ENDDATE
POLICYHOLDER



INSUREDADDRESS

New

Table Columns

Add columns to the table.



- Columns
 - CLIAMID
 - CLAIMDATE
 - CLAIMVALUE
 - STATUS
 - POLICY

Column name: POLICY

Column type: BIGINT

Default:

Nullable Key column

Add Another Delete

< Back

Next >

Finish

Cancel

New

Primary Key

No non-null columns available for creating a primary key



Primary key name:

Source Columns

Sort

CLIAMID

Sort



< Back

Next >

Finish

Cancel

New

Foreign Keys

Add foreign keys for the table. If you do not name the foreign key, a name will be generated for you.



Foreign Keys

- FK_POLICY

Foreign key name: FK_POLICY

On Delete

On Update

Target Table POLICY.POLICY

Browse...

Source Columns

CLIAMID
CLAIMDATE
CLAIMVALUE
STATUS



Sort

POLICY

Sort

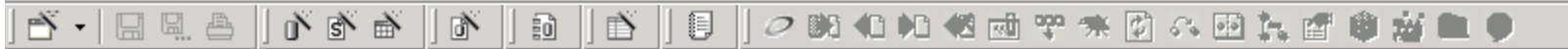
Add Another Delete

< Back

Next >

Finish

Cancel



Data Definition

- CLLOUDSCAPE_V50_1
 - MediQuotes (Cloudscape, V5.0)
 - APP
 - SYSVISUAL
 - POLICY
 - Tables**
 - POLICY.ADDRESS
 - POLICY.CONTACT
 - POLICY.POLICY
 - POLICY.CLAIM
 - Views
 - Aliases
 - Indexes
 - Triggers

Data Definition Navigator

DB Servers

- MediQuotes
 - MediQuotes(jdbc:db2j:D:\WSData\MediPolicy)
 - APP
 - SYSVISUAL

Outline

An outline is not

Tasks (0 items)

C	!	Description	Resource	In Fold

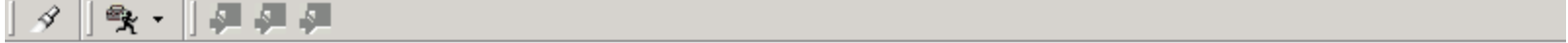
Tasks DB Output

1 item selected.

To export schema

- Right-click on POLICY schema in the Data Definition view.
- Select Export to Server.
- Accept the defaults, click on Next on the first two dialog screens.
- When in Database Connection dialog, select the bottom checkbox Use an existing connection and ensure MediQuotes connection we created earlier is selected.
- Click on Finish.

- Check that the changes have been committed to the database by selecting connection in the DB Servers view and clicking on its Refresh menu. POLICY should appear on the list of schemas.
- Select the MediQuotes connection. Right-click and select Disconnect.
- Close the Data perspectives.



Data Definition

- MediPolicy
- MediPolicyEJB
 - ejbModule
 - META-INF
 - backends
 - CLOUDSCAPE_V50_1
 - MediQuotes (Cloudscape, V5.0)
 - APP
 - SYSVISUAL
 - POLICY**
 - Stat

Open
New
Generate DDL ...
Export to server ...
Copy
Cut
Paste
Delete
Rename

DB Servers

- MediQuotes
 - MediQuotes(jdbc:db2j:...
 - APP
 - SYSVISUAL

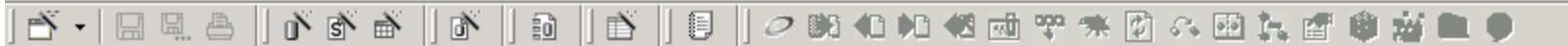
Outline

An outline is not

Tasks (0 items)

C	!	Description	Resource	In Fold

Tasks DB Output



Data Definition

- MediPolicy
 - MediPolicyEJB
 - ejbModule
 - META-INF
 - backends
 - CLOUDSCAPE_V50_1
 - MediQuotes.sql
 - MediQuotes (Cloudscape, V5.0)
 - APP
 - SYSVISUAL
 - POLICY
 - Statements

DB Servers

- POLICY
 - Tables
 - POLICY.ADDRESS
 - POLICY.CLAIM
 - POLICY.CONTACT
 - POLICY.POLICY
 - Views
 - Aliases
 - Indexes
 - Triggers
 - Structured Types
- SYSVISUAL

1 item selected.

Outline

An outline is not

Tasks (0 items)

C	!	Description	Resource	In Fold

Tasks DB Output

Generate Entity EJBs from DB Schema

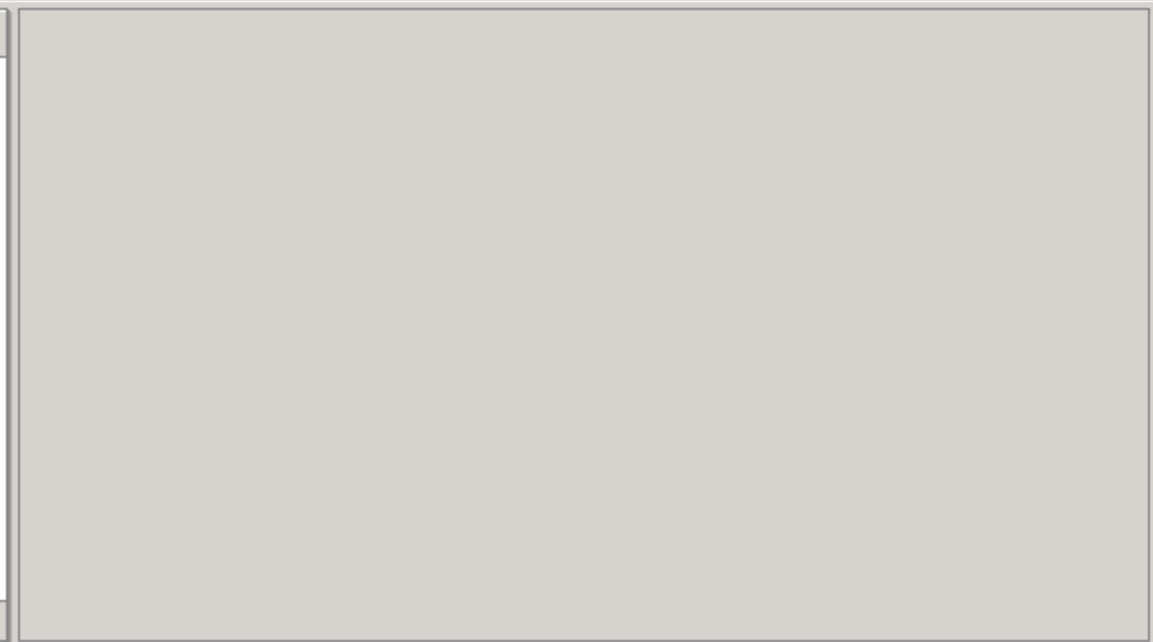
- Switch to J2EE perspective
- Expand EJB modules and select MediPolicyEJB. This project will be used to contain our generated EJBs.
- Right-click and select Generate -> EJB to RDB Mapping
- This wizard detects that we already have have database metadata imported into our project and asks if we wish to use this as the basis for the map.
- Ensure Use an existing backend folder remains selected and click on next.



J2EE Hierarchy

- Enterprise Applications
 - Application Client Modules
 - Connector Modules
 - Web Modules
 - EJB Modules
 - MediPolicyEJB
 - Databases
 - Servers
 - Server Configurations

J2EE Hierarchy | J2EE Navigator



Outline

An outline is not available.

Tasks (0 items)

	C	!	Description	Resource	In Folder	Location

Tasks | Properties | Servers | Console | DB Servers



J2EE Hierarchy

- Enterprise Applications
 - Application Client Modules
 - Connector Modules
 - Web Modules
 - EJB Modules
 - MediPolicyEJB
- Databases
- Servers
- Server Configur...

- New
- Import...
- Export...
- Generate
 - Deploy and RMIC Code...
 - EJB to RDB Mapping...
 - Schema DDL
- Access Beans
- Migrate
- Open With
- Debug on Server...
- Run on Server...
- Profile on Server...
- Restart Project
- Export EJB JAR File...
- Run Validation
- Delete...
- Rename...
- Properties

J2EE Hierarchy J2EE M...

Outline

An outline is not availa...

Description	Resource	In Folder	Location

EJB to RDB Mapping

EJB to RDB Mapping

Create a mapping between an EJB JAR and a relational database.



Specify the backend folder that will contain the generated mapping file, database schema and other runtime information.

Create a new backend folder

Use an existing backend folder:

CLOUDSCAPE_V50_1

Re-execute mapping commands to react to model changes

Open mapping editor on selected backend map

< Back

Next >

Finish

Cancel

- As there are no EJBs currently in the project, the only option we can select is Bottom up. If we had created EJBs first, Top Down and Meet in the Middle would have been available as well. Click Next.
- On the selected Bottom Up Mapping Options dialog, ensure Generate 2.0 enterprise beans is selected. Enter a package name of `com.mediquotes.policy.entity` and click on Finish.
- An EJB map called `Map.mapxmi` is displayed.

EJB to RDB Mapping

Create new EJB/RDB Mapping

Select Bottom Up Mapping Options



Select a specification level:

- Generate 1.1 enterprise beans
- Generate 2.0 enterprise beans

Package for generated EJB classes:

Prefix for generated EJB classes:

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Next >

Finish

Cancel



J2EE Hierarchy

- Enterprise Applications
 - Application Client Modules
 - Connector Modules
 - Web Modules
- EJB Modules
 - MediPolicyEJB
- Databases
- Servers
- Server Configurations

J2EE Hierarchy | J2EE Navigator

Map.mapxml(CLOUDSCAPE_V50_1)

Enterprise Beans

- MediPolicyEJB
 - Address
 - Contact
 - Policy
 - Claim

Tables

- MediQuotes
 - POLICY.ADDRESS
 - POLICY.CONTACT
 - POLICY.POLICY
 - POLICY.CLAIM

Overview

Enterprise Beans	Tables
MediPolicyEJB	MediQuotes
Address	POLICY.ADDRESS
Contact	POLICY.CONTACT
Policy	POLICY.POLICY

Outline

MediPolicyEJB <--> MediQuotes

- Address <--> POLICY.ADDRESS
- Contact <--> POLICY.CONTACT
- Policy <--> POLICY.POLICY
- Claim <--> POLICY.CLAIM

Properties

Property	Value

Tasks | Properties | Servers | Console | DB Servers

- In this editor, you can see exactly how each field in the EJB has been mapped to the database schema. For each foreign key, a container-managed EJB relationship has been generated. To see these in more detail:
- Select a relationship such as `fk_address` from the Contact EJB. Right-click and select Open Deployment Descriptor Editor.
- This action opens the editor for `ejb-jar.xml` in the EJB module. The Beans tab is open.
- Select the `Contact_To_Address` relationship and click on the Edit button.

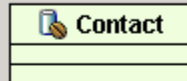
Edit Relationship

Relationship

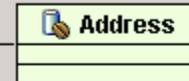
Modify an association between two enterprise beans.



Contact_To_Address



Contact



Address

Relationship name: Contact_To_Address

Description:

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Next >

Finish

Cancel

- Click on Next on the first screen of the dialog to see the Relationship Roles screen.

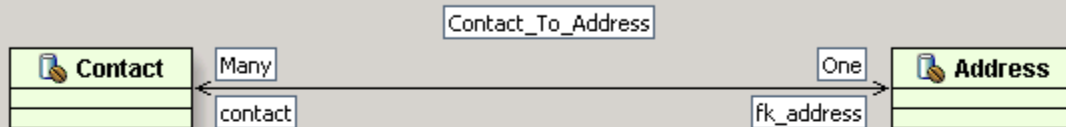
Edit Relationship

Relationship Roles

Modify the relationship roles between two enterprise beans.



UML view:



EJB specification view:

Source EJB: Contact

Role name:

Multiplicity:

Navigable

CMR field referencing Address:

CMR field type:

Cascade delete

Foreign key

Source EJB: Address

Role name:

Multiplicity:

Navigable

CMR field referencing Contact:

CMR field type:

Cascade delete

Foreign key

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Next >

Finish

Cancel

- Each Contact instance can have only one Address, but the same Address can be used for many Contacts.
- Both the sides of the relationship are nevigable by default. The Contact EJB has a field called `fk_address` with an accessor called `get_Fk_address()`.
- Each Address instance is able to find all of the Contact objects which refers to it by calling `getContact()`. As the multiplicity of the relationship is many, this returns a Collection of Contact instances.

To deploy an Application

- Open Server perspectives
- Select File -> New -> Server and Server Configuration. When the Create a new server dialog appears, enter LocalWAS50 as the server name and leave the default project name as Servers.
- From Server Type list, select Test Environment from the Websphere version 5.0 category. Click Finish.

- From Server perspective, select LOCALWAS50, right-click and then select the Add -> MediPolicy menu.
- Select LocalWAS50 entry again, Double-click. The server configuration is now displayed.
- Switch to Data Source in the tab
- Select Couldscape JDBC driver entry. Click on Add... next to the Data Source list. This action causes the Create a Data Source dialog to be displayed

- Select Version 5.0 data source. Click Next
- Enter a name of MediCloudscape and enter jdbc/medi as the JNDI name. Ensure the Use this data source in container managed persistence (CMP) checkbox is selected. Click on Next.
- Modify Resource Properties dialog, select databaseName field and change value to d:\WSData\MediPolicy. Click on Finish.

Modify Data Source

Modify Data Source

Edit the settings of the data source.



Name:	<input type="text" value="MediCloudscape"/>
JNDI name:	<input type="text" value="jdbc/medi"/>
Description:	<input type="text" value="New JDBC Datasource"/>
Category:	<input type="text"/>
Statement cache size:	<input type="text" value="0"/>
Data source helper class name:	<input type="text" value="com.ibm.websphere.rsadapter.CloudscapeDataStoreHelper"/>
Connection timeout:	<input type="text" value="1800"/>
Maximum connections:	<input type="text" value="10"/>
Minimum connections:	<input type="text" value="1"/>
Reap time:	<input type="text" value="180"/>
Unused timeout:	<input type="text" value="1800"/>
Aged timeout:	<input type="text" value="0"/>
Purge policy:	<input type="text" value="1"/>
Component-managed authentication alias:	<input type="text"/>
Container-managed authentication alias:	<input type="text"/>

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Next >

Finish

Cancel

Create a Data Source

Modify Resource Properties

Edit the resource properties for this data source.



Resource Properties:

Name	Description
databaseName	This is a required property. This property must be set and it identifies which ...
remoteDataSourceProtocol	If the database is remote and the Data Source accesses the database via cli...
shutdownDatabase	If set to the string 'shutdown', this will cause the database to shutdown whe...
dataSourceName	Name for ConnectionPooledDataSource or XADataSource. Not used by the D...
description	Description of the Data Source. Not used by the Data Source object. Used fo...

Name: databaseName

Type: java.lang.String

Required: Yes

Value: D:\WSDData\MediPolicy\

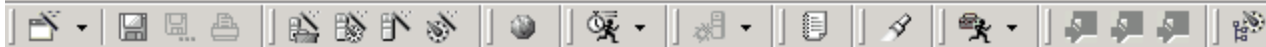
Description: This is a required property. This property must be set and it identifies which database to access. f

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Next >

Finish

Cancel



Navigator

- MediPolicy
- MediPolicyEJB
- Servers

***LocalWAS50**

JDBC provider list:

Name	Implementation class name
Cloudscape JDBC ...	com.ibm.db2j.jdbc.DB2jConnectionPoolDataSource
Default DB2 JDBC ...	COM.ibm.db2.jdbc.DB2ConnectionPoolDataSource

Data source defined in the JDBC provider selected above:

Name	JNDI Name	Type
MediCloudscape	jdbc/medi	V5

Resource properties defined in the data source selected above:

Name	Value	Type
databaseName	D:\WSDData\MediPolicy	java.lang.String
remoteDataSource...		java.lang.String

Server Configuration

- Servers
 - LocalWAS50
 - Unused Server Configurations

Server | Configu... | Paths | Environ... | Web | Data so... | Ports | Variables | Trace | Security | EJB | J2C | JMS | Appl...

Servers

Server	Status	Server State
LocalWAS50	Stopped	The server should be republished

Servers | Console

To bind EJBs to the new Data Source

- Switch back to J2EE perspective
- Select MediPolicyEJB module from J2EE Hierarchy view. Double-click to open its EJB Deployment Descriptor editor. Switch to Beans tab
- Repeat steps for all other EJBs.
- Save and close editor.



J2EE Hierarchy

- MediPolicyEJB
 - Address
 - addressid : jav
 - address1 : jav
 - address2 : jav
 - code : java.lan
 - country : java.
 - contact : Cont
 - policy : Policy
 - AddressLocalH
 - AddressLocal
 - AddressBean
 - AddressKey
 - Claim
 - Contact
 - Policy

J2EE Hierarchy J2EE Navigator

Outline

- MediPolicyEJB
 - Address
 - Claim
 - Contact
 - Policy

*EJB Deployment Descriptor

Beans

Address
Claim
Contact
Policy

CMP Fields:

- address2 : java.lang
- code : java.lang.Stri
- country : java.lang.S

WebSphere Bindings

The following are binding properties for the WebSphere Application Server.

JNDI name:

CMP Container Factory JNDI Name:

Container authorization type:

Class and Interface Files

Overview Beans Assembly Descriptor References Access Source

Properties

Property	Value

Tasks Properties Servers Console DB Servers

To populate the database

- For each table, switch to the Data tab in the Cloudscape administration tool, use `cvview.bat`
- Click on the Action icon and then Import.
- Select the appropriate table as listed below. Import in the following sequence to ensure you do not encounter foreign key problems.
- `PQ-ADDRESS-ImportData.txt` - data for the ADDRESS table
- `PQ-CONTACT-ImportData.txt` - data for the CONTACT table
- `PQ-POLICY-ImportData.txt` - data for the POLICY table
- `PQ-CLAIM-ImportData.txt` - data for the CLAIM table

To populate the database

- On the Import options dialog, select a Delimiter of Tab. Press OK.
- Click on the Load all icon to update the table in the Data tab.
- Click on the Save icon.
- Repeat for the other tables
- Close the database and administration tool when complete.

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PQ-CLA
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Cview
File Edit View Help

System
D:\WSDData\MediPolicy
Tables
ADDRESS
CLAIM
CONTACT
POLICY
Views
Stored Statements
Triggers
Jar Files
Aliases

Import for ADDRESS

General | Advanced

File:

Delimited

Separator: Tab

Quote: "

Data Options

Codeset: Cp1252

Locale: None

OK Cancel Help

ress

System

- D:\WSData\MediPolicy
 - Tables
 - ADDRESS
 - CLAIM
 - CONTACT
 - POLICY
 - Views
 - Stored Statements
 - Triggers
 - Jar Files
 - Aliases

Action New Delete

Table Properties SQL Data

[Refresh] [Back] [Print] [Add] [Remove] [Search] [List]

	ADDRESSID	ADDRESS1	ADDRESS2	CODE	COUNTRY	
1	20001	88 Procurement Hi	Business	BP1 2BP	INDIA	
2	20002	1 Timetoalue Plac	Future	FP1 3FP	INDIA	
3	20003	31 Requirement Te	Business	BP1 3BP	INDIA	
4	20004	4 Planning Lane	Engagement	EP1 1EP	INDIA	
5	20005	19 Performance Pl	Operational	OP1 1OP	INDIA	
6	20006	2 Lecture Hill	Business	BP1 1BP	INDIA	
7	20007	57 Conference Par	Future	FP1 2FP	INDIA	
8	20008	6 Handout Road	Training	TP1 1TP	INDIA	
9	20009	49 Mainframe Park	Future	FP1 1FP	INDIA	

OK Cancel Help

9 rows loaded.