

Oracle Data Integrator 12.2.1

Mit 7 Schritten eine Datei in
eine relationale Tabelle laden

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Was sind die grundlegenden **Entwicklungsschritte** bei der Arbeit mit dem **Oracle Data Integrator 12c**?

Eine sehr gute Frage!
Bitte wählen Sie die folgenden **Kategorien**, um näheres zu erfahren:

Aufgabenstellung und Inhalt der Quelldatei



Struktur der Zieltabelle



Entwicklungsschritte



Weitere Informationen



Mit Klick auf dieses Symbol gelangen Sie auf dieses Seite.



Mit diesen Symbolen navigieren Sie vor und zurück.



Die Datei SRC_SALES_PERSON.txt soll in die relationale Tabelle TRG_SALES_PERSON überführt werden!

Inhalt der Textdatei: SRC_SALES_PERSON.txt

10	Georges	Hamilton	15/01/2001 00:00:00
11	Andrew	Andersen	22/02/1999 00:00:00
12	John	Galagers	20/04/2000 00:00:00
13	Jeffrey		10/06/1988 00:00:00
20	Jennie	Daumesnil	28/02/1988 00:00:00
21	Steve	Barrot	24/09/1992 00:00:00
22	Mary	Carlin	14/03/1995 00:00:00
30	Paul		11/03/1999 00:00:00
31	Paul	Edwood	18/03/2003 00:00:00
32	Megan	Keegan	29/05/2001 00:00:00
40	Rodolph	Bauman	29/05/2000 00:00:00
41	Stanley	Fischer	12/08/2001 00:00:00
42	Brian	Schmidt	25/08/1992 00:00:00
50	Anish	Ishimoto	30/01/1992 00:00:00
51	Cynthia	Nagata	30/02/1993 00:00:00



Struktur der Zieltabelle TRG_SALES_PERSON

```
SQL> describe odi_stage.trg_sales_person
```

Name	Null?	Type
SALES_PERSON_ID	NOT NULL	NUMBER(8)
FIRST_NAME		VARCHAR2(80)
LAST_NAME		VARCHAR2(80)
DATE_HIRED		VARCHAR2(80)
DATE_UPDATED	NOT NULL	DATE



Schritt 1

Schritt 2

Schritt 3

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Schritt 5

Schritt 6

Schritt 7

Topologie aufbauen – Verbindungen zu den Technologien definieren – hier bereits vorbereitet

The screenshot shows the Oracle Data Integrator Studio 12c interface. The main window displays the 'Logical Schema' configuration for 'FLAT_FILES_SRC'. The 'Name' field is set to 'FLAT_FILES_SRC'. The 'Context' dropdown is set to 'Physical Schemas'. The table below shows the mapping of contexts to physical schemas:

Context	Physical Schemas
Development	FILE_GENERIC./home/oracle/labs/files/my_flat_files
Global	FILE_GENERIC./home/oracle/labs/files/my_flat_files
Production	FILE_GENERIC./home/oracle/labs/files/my_flat_files

The left sidebar shows the 'Physical Architecture' tree with 'Technologies' expanded to 'File', showing 'FILE_GENERIC' and its associated paths. The 'Contexts' section shows 'Development', 'Global', and 'Production'. The 'Logical Architecture' section shows 'Technologies' expanded to 'File', showing 'FILE_DEMO_SRC' and 'FLAT_FILES_SRC'.

Bitte klicken Sie auf die einzelnen Schritte, um mehr zu erfahren.



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Schritt 7

1. Model anlegen für File Technologie

2. Model anlegen für Oracle Technologie

The screenshot displays the Oracle Data Integrator Studio 12c interface. The main window title is "Oracle Data Integrator Studio 12c". The menu bar includes File, Edit, View, Search, ODI, Tools, Window, Team, Run, and Help. The toolbar contains various icons for file operations and execution. The "Designer" tab is active, showing a project tree on the left with "FLAT_FILE_SRC" selected. The right pane shows the "Definition" and "Model" configuration for the selected project. The "Definition" pane lists various options like Reverse Engineer, Selective Reverse-Engineering, Control, Journalizing, Journalized Tables, Services, Markers, Memo, Version, Privileges, and Flexfields. The "Model" pane shows the following configuration:

- Name: FLAT_FILE_SRC
- Code: FLAT_FILE_SRC
- Technology: File
- Logical Schema: FILE_DEMO_SRC
- Action Group: <Generic Action>
- Default Folder: (empty)
- Display the Metadata changes in the Model tree
- Description: (empty)

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1. Model anlegen für File Technologie

2. Model anlegen für Oracle Technologie

The screenshot displays the Oracle Data Integrator Studio 12c interface. The main window is titled "Oracle Data Integrator Studio 12c". The menu bar includes File, Edit, View, Search, ODI, Tools, Window, Team, Run, and Help. The toolbar contains various icons for file operations and execution. The "Designer" tab is active, showing a project tree on the left with "Oracle_RDBMS1" selected. The right pane is divided into "Definition" and "Model" sections. The "Definition" section lists properties like Reverse Engineer, Selective Reverse-Engineering, Control, Journalizing, Journalized Tables, Services, Markers, Memo, Version, Privileges, and Flexfields. The "Model" section contains configuration fields: Name (Oracle_RDBMS1), Code (ORACLE_RDBMS1), Technology (Oracle), Logical Schema (ODI_STAGE), Action Group (<Generic Action>), and Default Folder. A checkbox for "Display the Metadata changes in the Model tree" is also present.

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1. Datastore anlegen für File Technologie (1/3)

2. Datastore anlegen für Oracle Technologie

The screenshot displays the Oracle Data Integrator Studio 12c interface. The title bar reads "Oracle Data Integrator Studio 12c : SRC_SALES_PERSON". The menu bar includes File, Edit, View, Search, ODI, Tools, Window, Team, Run, and Help. The toolbar contains various icons for file operations and execution. The "Designer" tab is active, showing a tree view on the left with "Models" expanded to "Flat_File_1", which contains "SRC_SALES_PERSON (SRC_SALES_PERSON.txt)". A red arrow points from this entry to the "Definition" tab in the right-hand pane. The "Definition" pane shows the configuration for the "Datastore [Model: Flat_File_1 ▶ Sub-Model: Global]". The "Name" field is "SRC_SALES_PERSON" and the "Alias" is "SRC". The "Datastore Type" is set to "Table" and the "OLAP Type" is "<Undefined>". The "Resource Name" is "SRC_SALES_PERSON.txt". The "Description" field is empty. A "Datastore Static Control" checkbox is checked at the top of the definition pane.

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1. Datastore anlegen für File Technologie (2/3)

2. Datastore anlegen für Oracle Technologie

The screenshot displays the Oracle Data Integrator Studio 12c interface for configuring a File Datastore. The window title is "Oracle Data Integrator Studio 12c : SRC_SALES_PERSON". The "Designer" tab is active, showing a tree view on the left with "Models" expanded to "SRC_SALES_PERSON (SRC_SALES_PERSON.txt)". A red arrow points to the "Files" option in the "Definition" menu. The right-hand pane shows the configuration for the "Files" datastore type. The "File Format" is set to "Fixed". The "Heading (Number of Lines)" is set to "0". Under "Record Separator", the "Unix" option is selected. Under "Field Separator", the "Tab" option is selected. The "Hexadecimal" fields are set to "\u000A" for the record separator and "\u0009" for the field separator.

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1. Datastore anlegen für File Technologie (3/3)

2. Datastore anlegen für Oracle Technologie

The screenshot shows the Oracle Data Integrator Studio 12c interface. The title bar reads "Oracle Data Integrator Studio 12c : SRC_SALES_PERSON". The menu bar includes File, Edit, View, Search, ODI, Tools, Window, Team, Run, and Help. The toolbar contains various icons for file operations and execution. The "Designer" tab is active, showing a tree view on the left with "Models" expanded to "SRC_SALES_PERSON (SRC_SALES_PERSON.txt)". A red arrow points to the "Attributes" section in the "Definition" pane. The "Attributes" table is displayed with the following data:

Order	Name	Type	Start	Physic...	Length	Scale	Deci...	Rec. Co...	For...	SCD...
1	SALES_PERSON_ID	Numeric	1	11	11					<Un...
2	FIRST_NAME	String	12	50	50					<Un...
3	LAST_NAME	String	62	50	50					<Un...
4	DATE_HIRED	String	112	20	20					<Un...

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1. Datastore anlegen für File Technologie

2. Datastore anlegen für Oracle Technologie (1/2)

The screenshot displays the Oracle Data Integrator Studio 12c interface. The main window is titled "Oracle Data Integrator Studio 12c". The menu bar includes File, Edit, View, Search, ODI, Tools, Window, Team, Run, and Help. The toolbar contains various icons for file operations and execution. The "Designer" tab is active, showing a project tree on the left with "Models" expanded to "Oracle_RDBMS1", where "TRG_SALES_PERSON" is selected. A red arrow points from the "TRG_SALES_PERSON" icon in the tree to the "Definition" tab in the right-hand pane. The "Definition" pane shows the "Datastore [Model: Oracle_RDBMS1 ▶ Sub-Model: Global]" configuration. The "Name" field is set to "TRG_SALES_PERSON", and the "Alias" field is also "TRG_SALES_PERSON". The "Datastore Type" is set to "Table", and the "OLAP Type" is "<Undefined>". The "Resource Name" field is "TRG_SALES_PERSON". Below this, there is a section for "Number of Rows" with a "Total" field and a "Description" field.

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1. Datastore anlegen für File Technologie

2. Datastore anlegen für Oracle Technologie (2/2)

The screenshot shows the Oracle Data Integrator Studio 12c interface. The main window displays the configuration for a datastore named 'TRG_SALES_PERSON'. The 'Attributes' tab is selected, showing a table with the following data:

Order	Name	Type	Length	Scale	Not Null	SCD Behav...	
1	SALES_PERSON_ID	NUMBER		11	0	<input checked="" type="checkbox"/>	<Undefined>
2	FIRST_NAME	VARCHAR2		80		<input type="checkbox"/>	<Undefined>
3	LAST_NAME	VARCHAR2		80		<input type="checkbox"/>	<Undefined>
4	DATE_HIRED	VARCHAR2		80		<input type="checkbox"/>	<Undefined>
5	DATE_UPDATED	DATE				<input checked="" type="checkbox"/>	<Undefined>

The interface also shows a left-hand pane with a project tree containing various models and datastores, including 'TRG_SALES_PERSON'. A red arrow points to the 'Attributes' tab in the main configuration window.

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Projekt anlegen

The screenshot displays the Oracle Data Integrator Studio 12c interface. The title bar reads "Oracle Data Integrator Studio 12c : Export-FF-RT". The menu bar includes "File", "Edit", "View", "Search", "ODI", "Tools", "Window", "Team", "Run", and "Help". The toolbar contains various icons for file operations and development. The "Designer" tab is active, showing a tree view of the "Export-FF-RT" project. The tree view includes folders for "First Folder", "Packages", "Mappings", "Reusable Mappings", "Procedures", "Variables", "Sequences", "User Functions", "Knowledge Modules", "Markers", "HandsOnLoads", and "JunkForDemo". The right-hand pane shows the "Definition" tab for the "Project" entity. The "Name" field is set to "Export-FF-RT" and the "Code" field is set to "EXPORT_FF_RT".

Schritt 1

Schritt 2

Schritt 3

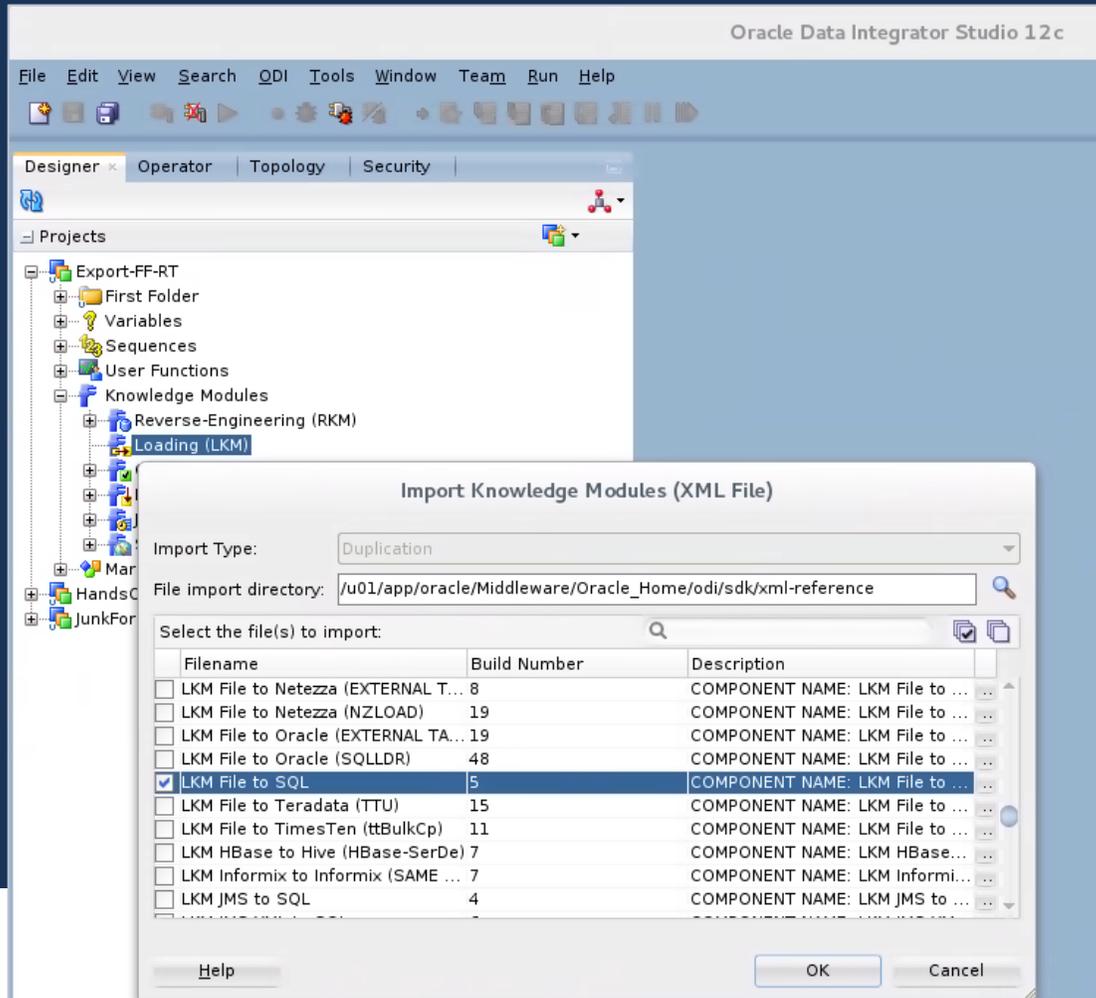
Schritt 4

Schritt 5

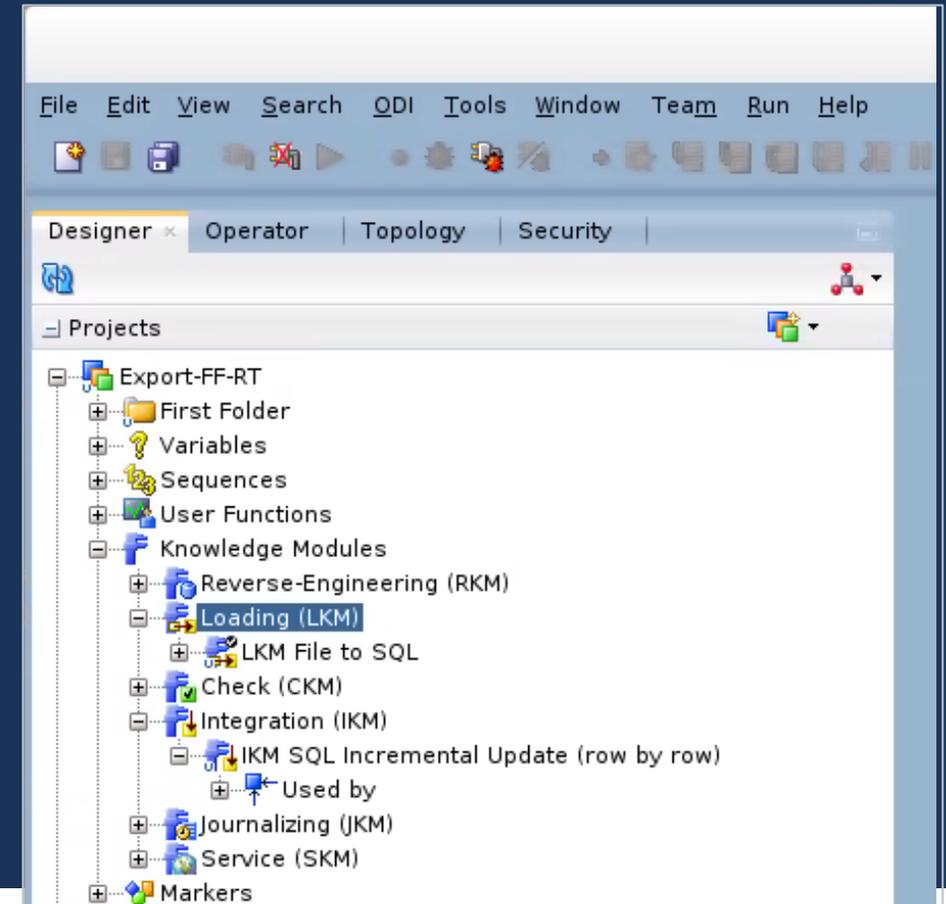
Schritt 6

Schritt 7

Gewünschte Knowledge Module für beide Technologien importieren



Ergebnis



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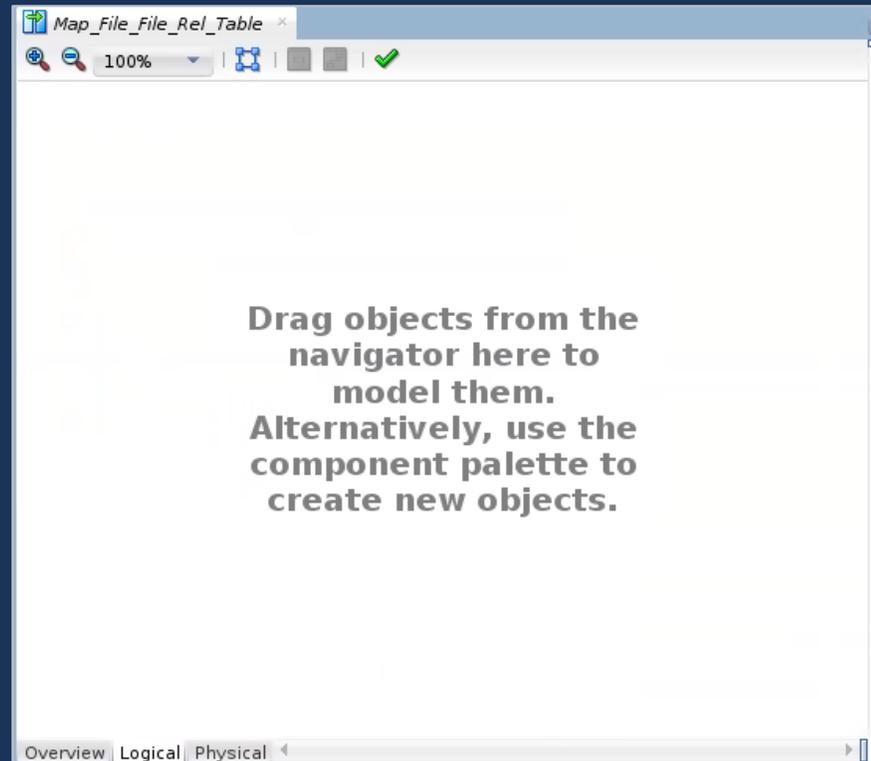
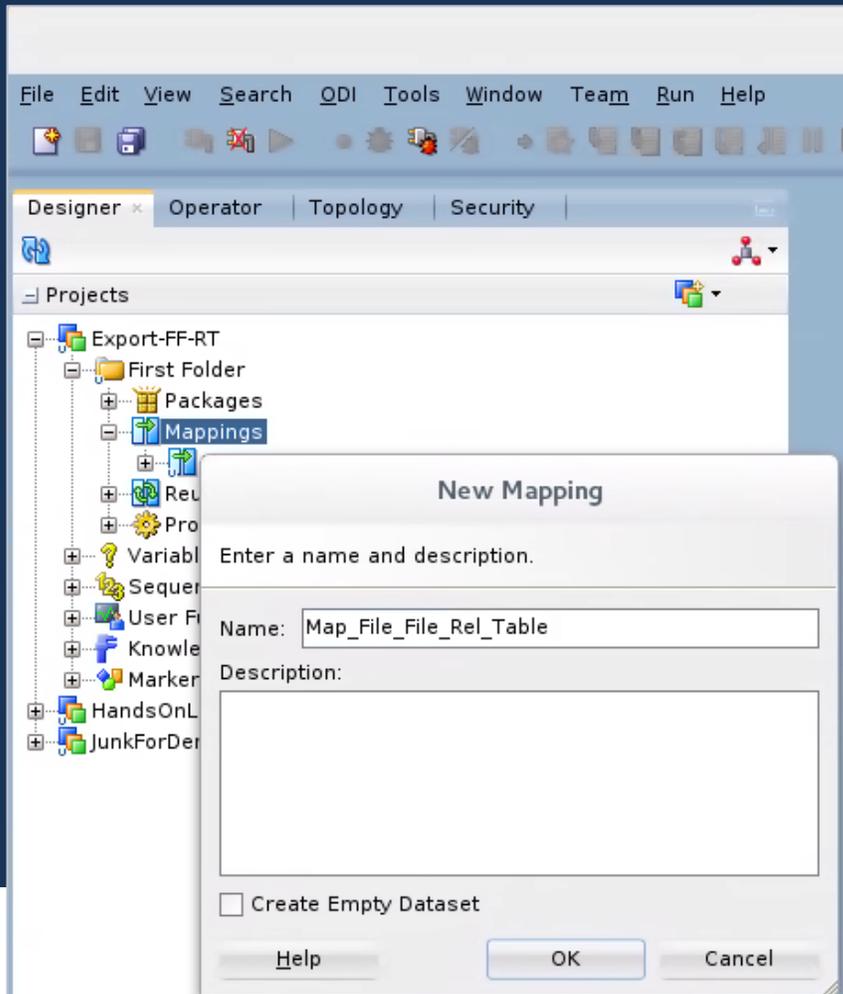
Schritt 6

Schritt 7

1. Mapping anlegen

2. Logische Mapping Sicht füllen

3. Physikalische Mapping Sicht füllen



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1. Mapping anlegen

2. Logische Mapping Sicht füllen

3. Physikalische Mapping Sicht füllen

1. Quell- und Ziel Datastores auf Leinwand ziehen, wahlweise weitere Komponenten, hier FILTER

2.

3.

4.

Oracle Data Integrator Studio 12c : Map_File_File_ReLTable

File Edit View Search Diagram ODI Tools Window Team Run Help

Designer Operator Topology Security

Map_File_File_Rel_Table

100%

Projects

Models

- FLAT_FILE_SRC
- Flat_File_1
 - Used by
 - Diagrams
 - Hierarchy
 - SRC_SALES_PERSON (SRC_SALES_PERSON.txt)
 - Hidden DataStores
 - Geographic Information
 - MySQL Orders Application
 - MySQL_Orders_Application1
 - Oracle Sales Application
 - Oracle_RDBMS1
 - Used by
 - Diagrams
 - Hierarchy
 - TRG_SALES_PERSON
 - Attributes
 - Filters
 - Constraints
 - Used To Populate
 - Populated By
 - Used by
 - Shortcuts

SRC

- SALES_PERSON_ID
- FIRST_NAME
- LAST_NAME
- DATE_HIRED

TRG_SALES_PERSON

- SALES_PERSON_ID
- FIRST_NAME
- LAST_NAME
- DATE_HIRED
- DATE_UPDATED

FILTER

Components

Logical

General

- Aggregate
- Dataset
- Distinct
- Expression
- Filter
- Flatten
- Jagged
- Join
- Lookup
- Pivot
- Set
- Sort
- Split
- Subquery Filter
- Table Function
- Unpivot

Schritt 1

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1. Mapping anlegen

2. Logische Mapping Sicht füllen

3. Physikalische Mapping Sicht füllen

1.

2. Objekte auf Leinwand verbinden → dabei Mapping von Quellspalten auf Zielspalten durchführen (1/2)

3.

4.

The screenshot shows the Oracle Data Integrator Studio 12c interface. The main workspace displays a logical mapping view titled "Map_File_File_Rel_Table". On the left, a tree view shows the project structure with "FLAT_FILE_SRC" selected. The main workspace contains two table objects: "SRC" and "TRG_SALES_PERSON". The "SRC" table has columns: SALES_PERSON_ID, FIRST_NAME, LAST_NAME, and DATE_HIRED. The "TRG_SALES_PERSON" table has columns: SALES_PERSON_ID, FIRST_NAME, LAST_NAME, DATE_HIRED, and DATE_UPDATED. A line connects the "SALES_PERSON_ID" column of the "SRC" table to the "SALES_PERSON_ID" column of the "TRG_SALES_PERSON" table. A "FILTER" object is positioned below the connection line. Red arrows point to the "SRC" table and the "FILTER" object. The bottom of the workspace has tabs for "Overview", "Logical", and "Physical", with "Logical" selected.

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Schritt 6

Schritt 7

1. Mapping anlegen

2. Logische Mapping Sicht füllen

3. Physikalische Mapping Sicht füllen

1. 2. Objekte auf Leinwand verbinden → dabei Mapping von Quellspalten auf Zielspalten durchführen (2/2)

3. 4.

The screenshot shows the Oracle Data Integrator Studio 12c interface. The main workspace displays a mapping diagram with two source tables: 'SRC' (columns: SALES_PERSON_ID, FIRST_NAME, LAST_NAME, DATE_HIRED) and 'TRG_SALES_PERSON' (columns: SALES_PERSON_ID, FIRST_NAME, LAST_NAME, DATE_HIRED, DATE_UPDATED). A red arrow points from the 'SRC' table to the 'TRG_SALES_PERSON' table. A 'FILTER' operator is positioned between them. An 'Attribute Matching' dialog box is open, showing the 'Match Options' section with 'By Name' selected and 'Ignore Case' checked. The 'Create Actions' section has 'Auto Map' checked. The dialog also shows the 'Connection Path' as 'Connect from FILTER to TRG_SALES_PERSON'.

The 'Attribute Matching' dialog box is shown in detail. It contains the following sections:

- Attribute Matching:** Finds matching attributes in source and target and creates maps. Optionally creates attributes if match is not found.
- Connection Path:** Connect from FILTER to TRG_SALES_PERSON.
- Match Options:**
 - By Name
 - By Position
 - Ignore Case
- Create Actions:**
 - Create Attributes On Source
 - Create Attributes On Target
 - Auto Map
 - Preserve Existing Expressions

Buttons: Help, OK, Cancel.

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1. Mapping anlegen

2. Logische Mapping Sicht füllen

3. Physikalische Mapping Sicht füllen

1.

2.

3. Filter setzen

4.

The screenshot displays the Oracle Data Integrator Studio 12c interface. The main workspace shows a logical mapping view for a process named 'Map_File_File_Rel_Table'. It features a source table 'SRC' with columns 'SALES_PERSON_ID', 'FIRST_NAME', 'LAST_NAME', and 'DATE_HIRED'. These are mapped to a target table 'TRG_SALES_PERSON' with columns 'SALES_PERSON_ID', 'FIRST_NAME', 'LAST_NAME', 'DATE_HIRED', and 'DATE_UPDATED'. A 'FILTER' component is positioned between the source and target, with a red arrow pointing to it. Below the workspace, the 'FILTER - Properties' panel is open, showing the 'Condition' field with the expression 'SRC.SALES_PERSON_ID > 30'. The 'Technical Description' field contains '[SRC_SALES_PERSON (SRC)].[SALES_PERSON_ID] > 30', and the 'Execute on Hint' is set to 'No Hint'. The 'Components' palette on the right lists various logical components like Aggregate, Dataset, Distinct, Expression, Filter, Flatten, Jagged, Join, Lookup, Pivot, Set, Sort, Split, Subquery Filter, Table Function, and Unpivot.

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1. Mapping anlegen

2. Logische Mapping Sicht füllen

3. Physikalische Mapping Sicht füllen

1. 2. 3. 4. Zielspalte DATE_UPDATED Datumsfunktion zuweisen

Oracle Data Integrator Studio 12c

File Edit View Search ODI Tools Window Team Run Help

Designer x Operator | Topology | Security | Start Page x Map_File_File_Rel_Table x

100%

Projects

- Export-FF-RT
 - First Folder
 - Packages
 - Mappings
 - Map_File_File_Rel_Table
 - Reusable Mappings
 - Procedures
 - Variables
 - Sequences
 - User Functions
 - Knowledge Modules
 - Reverse-Engineering (RKM)
 - Loading (LKM)
 - Check (CKM)
 - Integration (IKM)
 - Journalizing (JKM)
 - Service (SKM)
 - Markers
 - HandsOnLoads
 - JunkForDemo

Overview Logical Physical

DATE_UPDATED - Properties

Find

Target

Expression: **sysdate**

Execute on Hint: No Hint

Fixed Execution Location:

Technical Description:

Parsed Text: sysdate

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1. Mapping anlegen

2. Logische Mapping Sicht füllen

3. Physikalische Mapping Sicht füllen

1. Zuordnung des Lade Knowledge Moduls

2. Zuordnung des Integration Knowledge Moduls

The screenshot displays the Oracle Data Integrator Studio 12c interface. The main window shows a mapping diagram titled "Map_File_File_Rel_Table". The diagram is divided into two main sections: "SOURCE GROUP" and "TARGET_GROUP". The "SOURCE GROUP" contains a "FLAT FILES SRC UI" component with a "SRC" icon. The "TARGET_GROUP" contains an "ODI_STAGE_UNIT" component with three sub-components: "SRC_AP", "FILTER", and "TRG_SALES_PERSON". A red arrow points from the "SRC" icon in the source group to the "SRC_AP" component in the target group. Below the diagram, the "Physical" tab is selected, and a red arrow points to the "Physical" button. The "SRC_AP - Properties" panel is open, showing the "Loading Knowledge Module" dropdown menu set to "LKM File to SQL". A red arrow points to this dropdown menu. The "Style" dropdown is set to "Template-style".

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Schritt 7

1. Mapping anlegen

2. Logische Mapping Sicht füllen

3. Physikalische Mapping Sicht füllen

1. Zuordnung des Lade Knowledge Moduls

2. Zuordnung des Integration Knowledge Moduls

Oracle Data Integrator Studio 12c

File Edit View Search QDI Tools Window Team Run Help

Designer Operator Topology Security

Start Page Map_File_File_Rel_Table

100%

SOURCE_GROUP

FLAT FILES SRC UN

SRC

TARGET_GROUP

ODI_STAGE_UNIT

SRC_AP FILTER TRG_SALES_PERSON

Physical

Overview Logical Physical

TRG_SALES_PERSON - Properties

Find

General

Attributes

Integration Knowledge Module

Integration Knowledge Module: IKM SQL Incremental Update (row by row)

Style: Template-style

Schritt 1

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Schritt 4

Schritt 5

Schritt 6

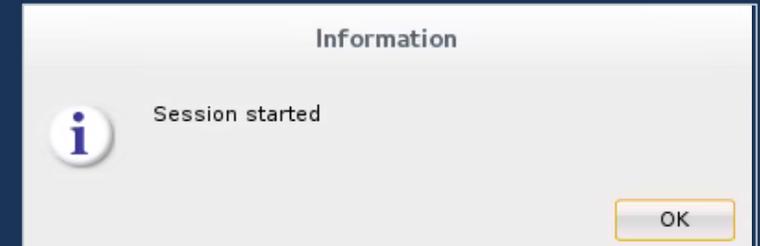
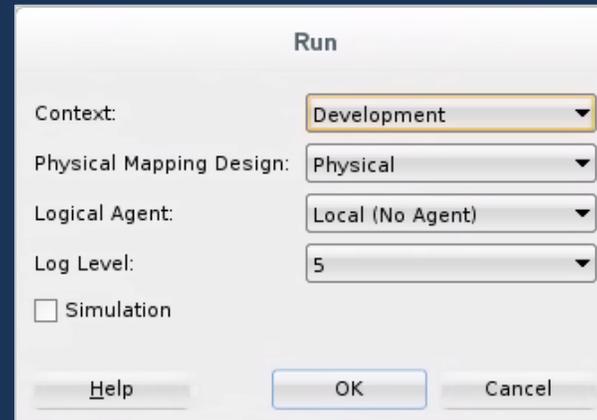
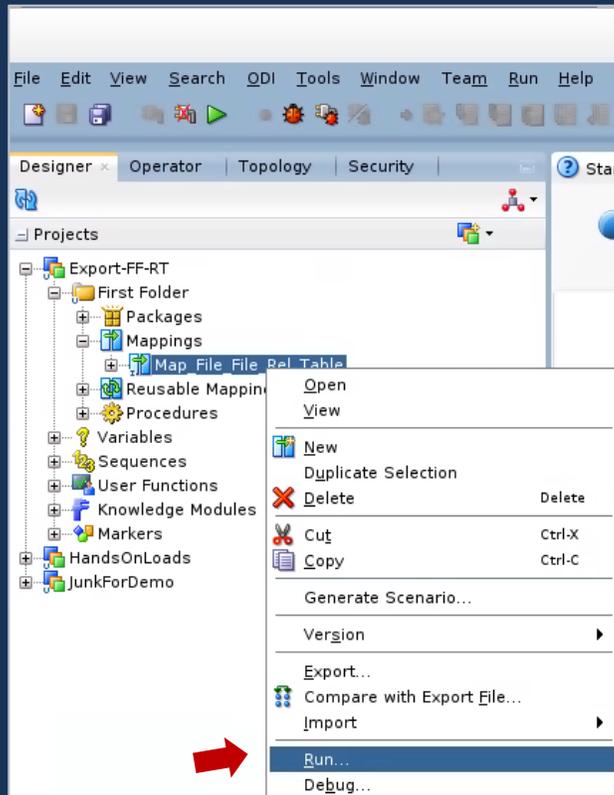
Schritt 7

1. Mapping speichern ausführen

2.

3.

4.



Schritt 1

Schritt 2

Schritt 3

Schritt 4

Schritt 5

Schritt 6

Schritt 7

1.

2. Ergebnis der Schritte im Operator Navigator

3.

4.

The screenshot displays the Oracle Data Integrator Studio 12c interface. The main window is titled "Oracle Data Integrator Studio 12c" and shows a "Session List" on the left and a "Code" editor on the right. The "Session List" is organized by date, with the current session being "Today (Sep 6, 2017)". The session tasks are listed in a tree view, with the task "50 - Load data - LKM File to SQL" selected and highlighted in blue. The "Code" editor shows the "Target Code" for this task, which is an SQL insert statement. The code is as follows:

```
1 insert into ODI_STAGE.C$_0SRC
2 (
3     SALES_PERSON_ID,
4     FIRST_NAME,
5     LAST_NAME,
6     DATE_HIRED
7 )
8 values
9 (
10    :SALES_PERSON_ID,
11    :FIRST_NAME,
12    :LAST_NAME,
13    :DATE_HIRED
14 )
15
```

Schritt 1

Schritt 2

Schritt 3

Schritt 4

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Schritt 7

1.

2.

3. Überprüfung des Ziel Datastores

4.

The screenshot displays the Oracle Data Integrator Studio 12c interface. The main workspace shows a data flow diagram with a source table 'SRC' containing columns SALES_PERSON_ID, FIRST_NAME, LAST_NAME, and DATE_HIRED. This data flows through a 'FILTER' component to a target table 'TRG SALES_PERSON...'. A context menu is open over the target table, listing options such as 'Open', 'Data...', 'Number of Rows...', 'Navigate', 'Remove from Diagram', 'Convert to Flow', 'Optimize Graphic Size', 'View as Compact', and 'View as Expanded'. A red arrow points to the 'Data...' option. The left sidebar shows a project tree with 'Export-FF-RT' and 'Map_File_File_Rel_Table' selected. The right sidebar shows the 'Components' palette with various data integration components like Aggregate, Dataset, Distinct, Expression, Filter, Flatten, Jagged, Join, Lookup, Pivot, Set, Sort, Split, and Subquery Filter.

Schritt 1

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Schritt 7

1.

2.

3.

4. Ergebnis ist korrekt, alle Beschäftigten mit SALES_PERSON_ID >30 wurden in die relationale Tabelle geladen

Data Editor

SALES_PERSON_ID	FIRST_NAME	LAST_NAME
31	Paul	Edwood
32	Megan	Keegan
40	Rodolph	Bauman
41	Stanley	Fischer
42	Brian	Schmidt
50	Anish	Ishimoto
51	Cynthia	Nagata
52	William	Smith

Executed Query:

```
select * from ODI_STAGE.TRG_SALES_PERSON
```

Record 1 of 8

Close

Besuchen Sie uns!



Wir bieten Ihnen viele weitere Kurse an und passend zum Thema folgende:

[Oracle BI 12c: Create Analyses and Dashboards Ed 1](#)

[Oracle BI 12c: Build Repositories](#)

[Grundlagen der Administration von Oracle BI 12c](#)

[Oracle Application Express 5: Grundlagen](#)

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Internet: www.robotron.de

