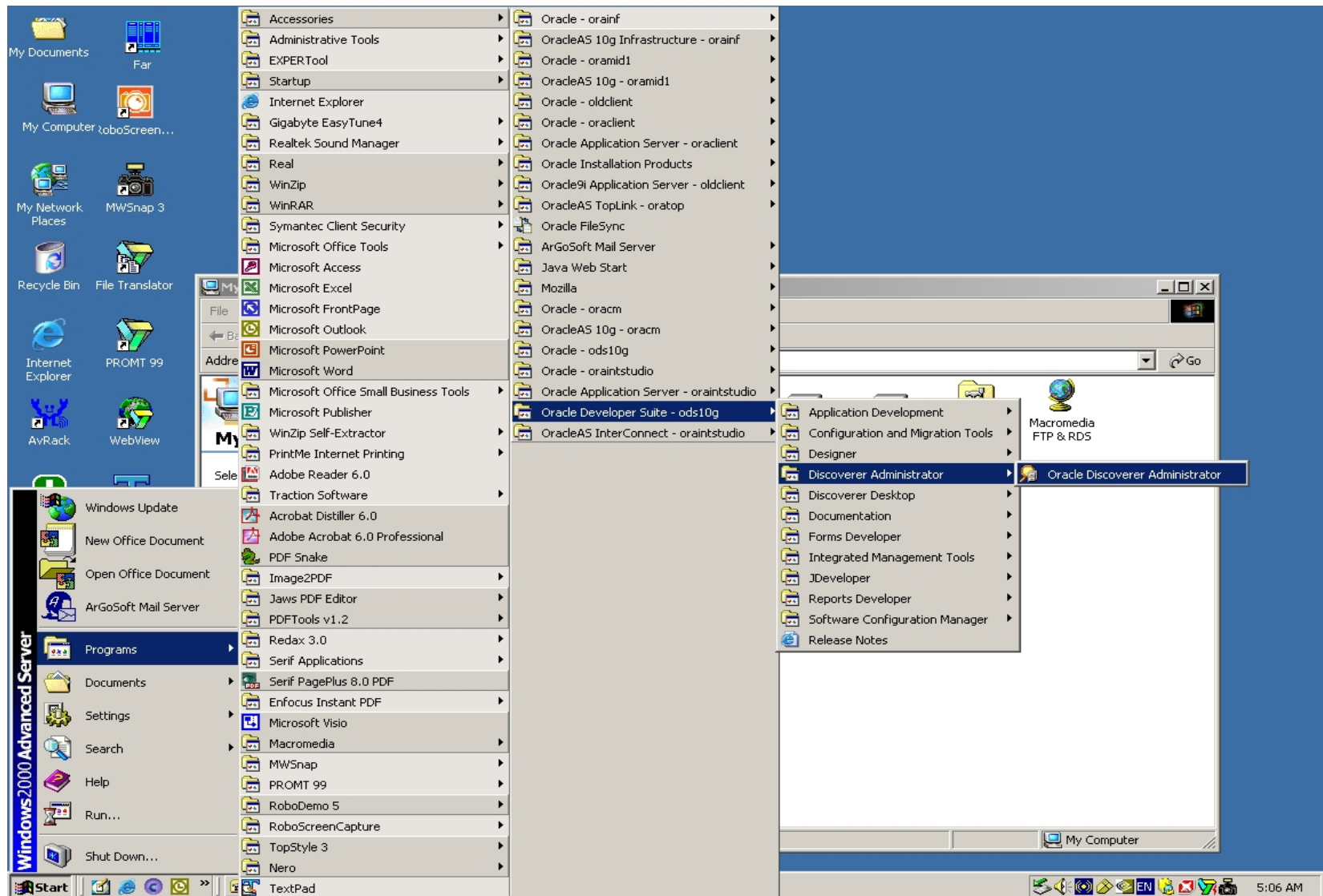


Инсталляция и конфигурирование Oracle Discoverer для сервера приложений Oracle Application Server 10g.

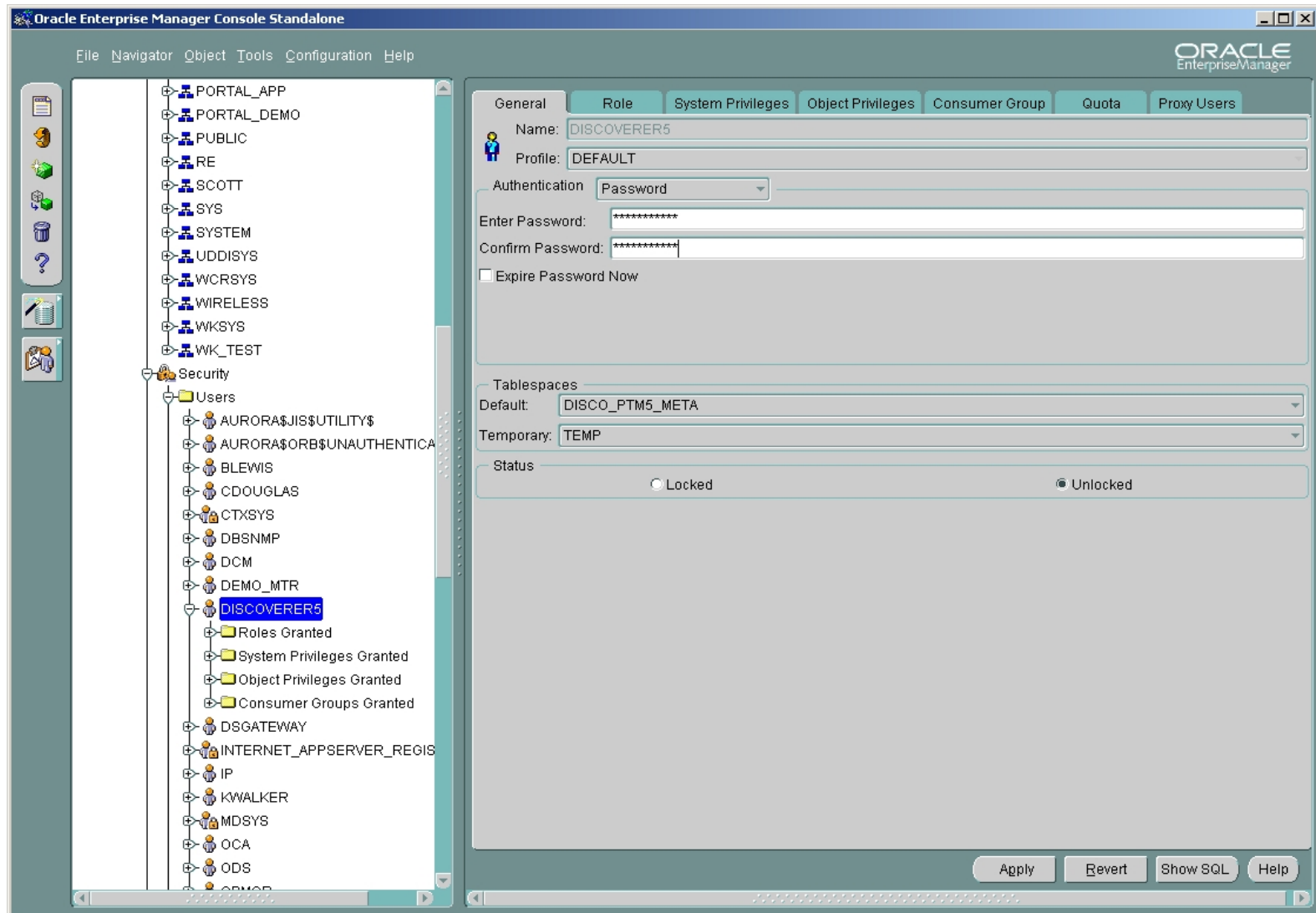
1. Преинсталляционные требования для настройки и конфигурирования Oracle Discoverer

- **Инсталляция инстанса Middle Tier в типе инсталляции “BI и Forms”.**
- **Инсталляция Oracle Developer Suite 10g где-либо в сети (Объяснить).**
- **Настройка ресурсов базы с учетом возможной генерации новых схем.**

2. Запускаем Oracle Discoverer Administrator



3. Меняем пароль пользователя DISCOVERER5



4. Осуществляем вход в Oracle Discoverer Administrator пользователем discoverer5



Connect to Oracle Discoverer Administrator

Oracle Discoverer Administrator
ORACLE

Connection

Username: discoverer5

Password: xxxxxxxx

Connect: asdb10

Connect

Cancel

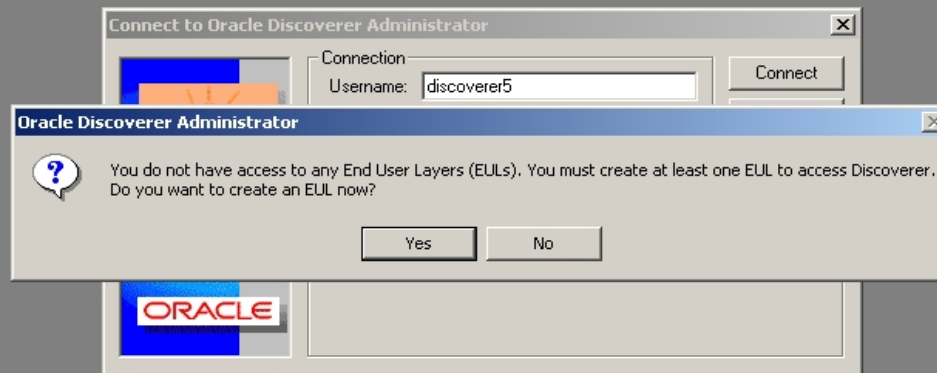
Help

About...

Status

Please enter your username, password and the database name.

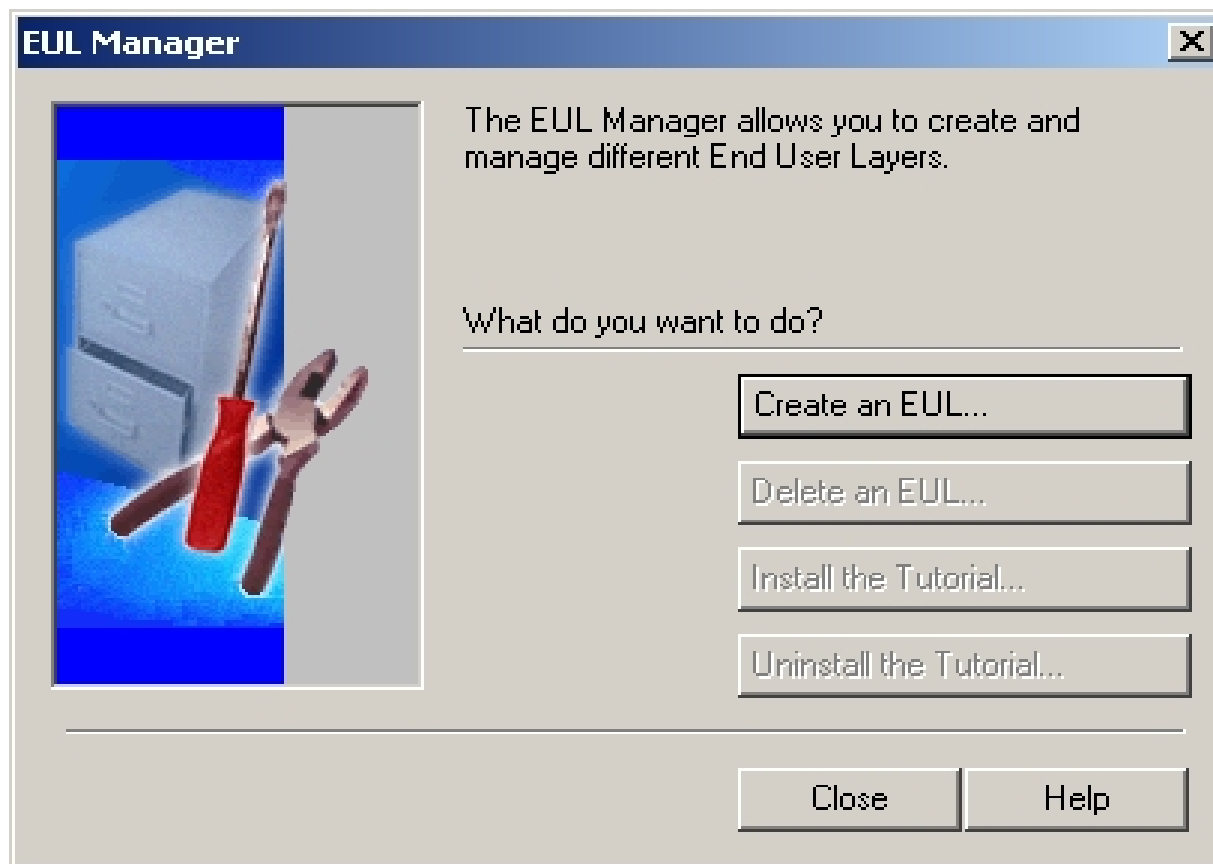
5. При попытке логина получаем следующее сообщение:



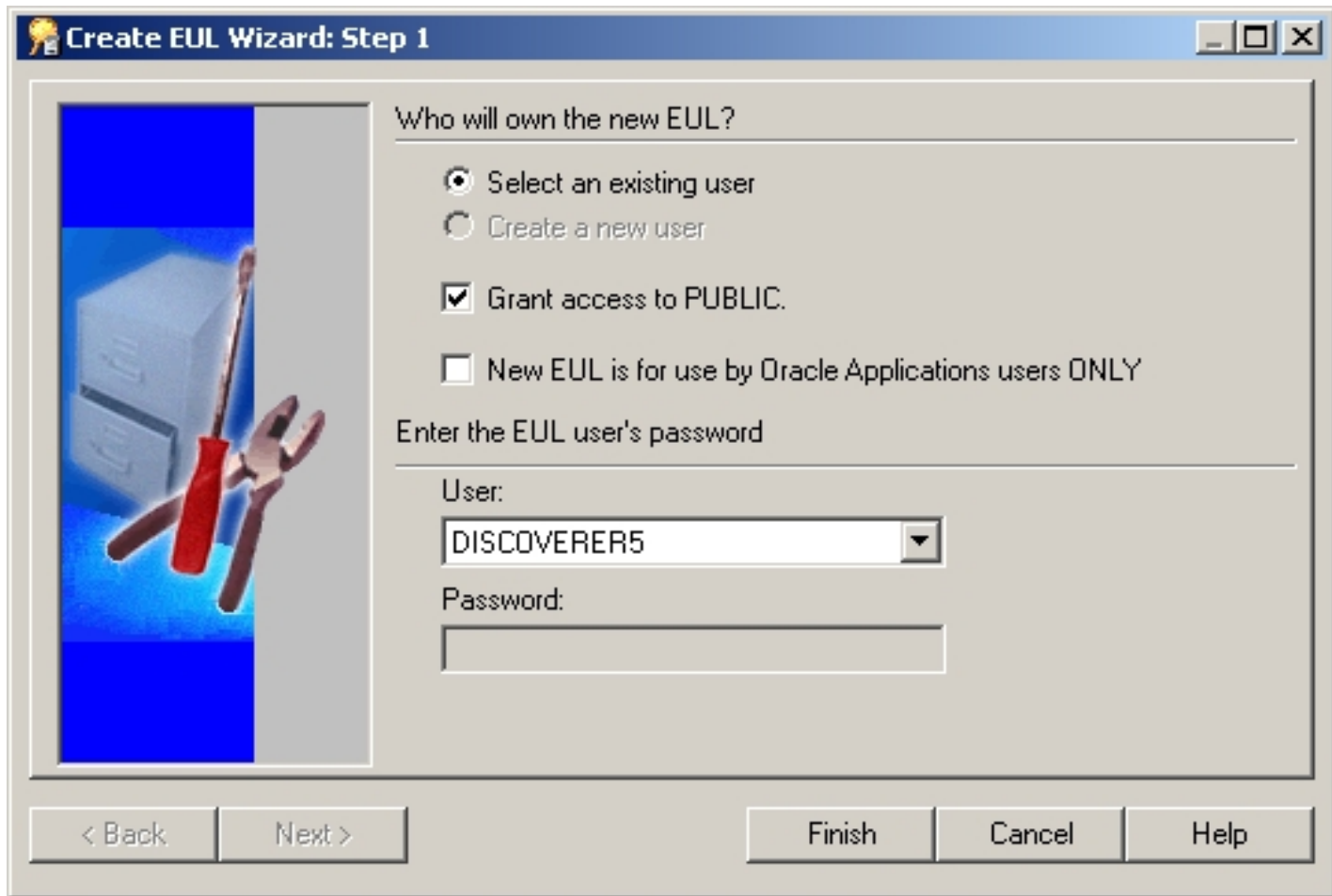
6. При попытке логина получаем следующее сообщение:



5. После подтверждения сообщения, что мы хотим создать End User Layer, подтверждаем это еще раз



6. Входим в Wizard создания EUL



Create EUL Wizard: Step 1

Who will own the new EUL?

☒ Select an existing user
☐ Create a new user

☒ Grant access to PUBLIC.
☐ New EUL is for use by Oracle Applications users ONLY

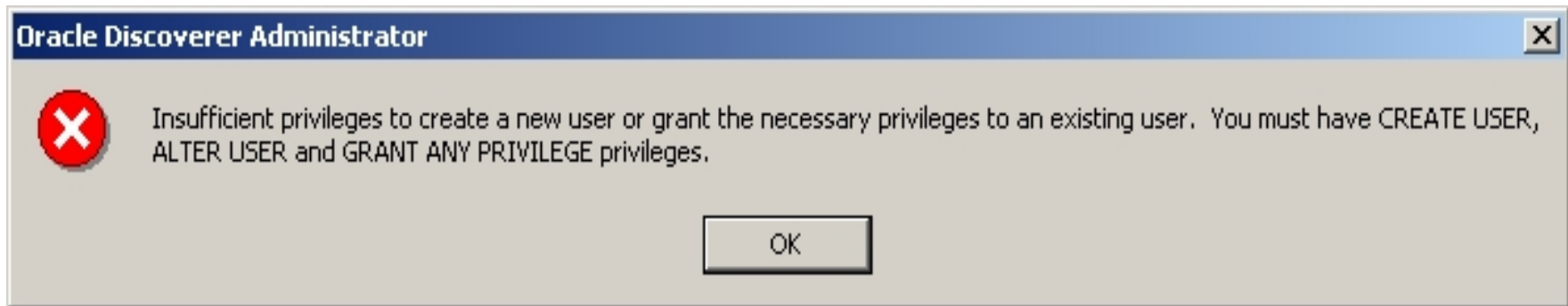
Enter the EUL user's password

User:
DISCOVERER5

Password:

< Back Next > Finish Cancel Help

7. Получаем сообщение, что у пользователя discoverer5 не хватает 3 типов привилегий.



8. Создаем нового пользователя scott1

Create User - sys@ASDB10_SCIAS.RU.ORACLE.COM

General Role System Privileges Object Privileges Consumer Group Quota Proxy Users

Name: SCOTT1

Profile: DEFAULT

Authentication: Password

Enter Password: *****

Confirm Password: *****

☐ Expire Password Now

Tablespaces

Default: USERS

Temporary: TEMP

Status

☐ Locked ☒ Unlocked

Create Cancel Show SQL Help

9. Добавляем пользователю scott1 необходимые привилегии

Create User - sys@ASDB10_SCIAS.RU.ORACLE.COM

General | Role | **System Privileges** | Object Privileges | Consumer Group | Quota | Proxy Users

Available:

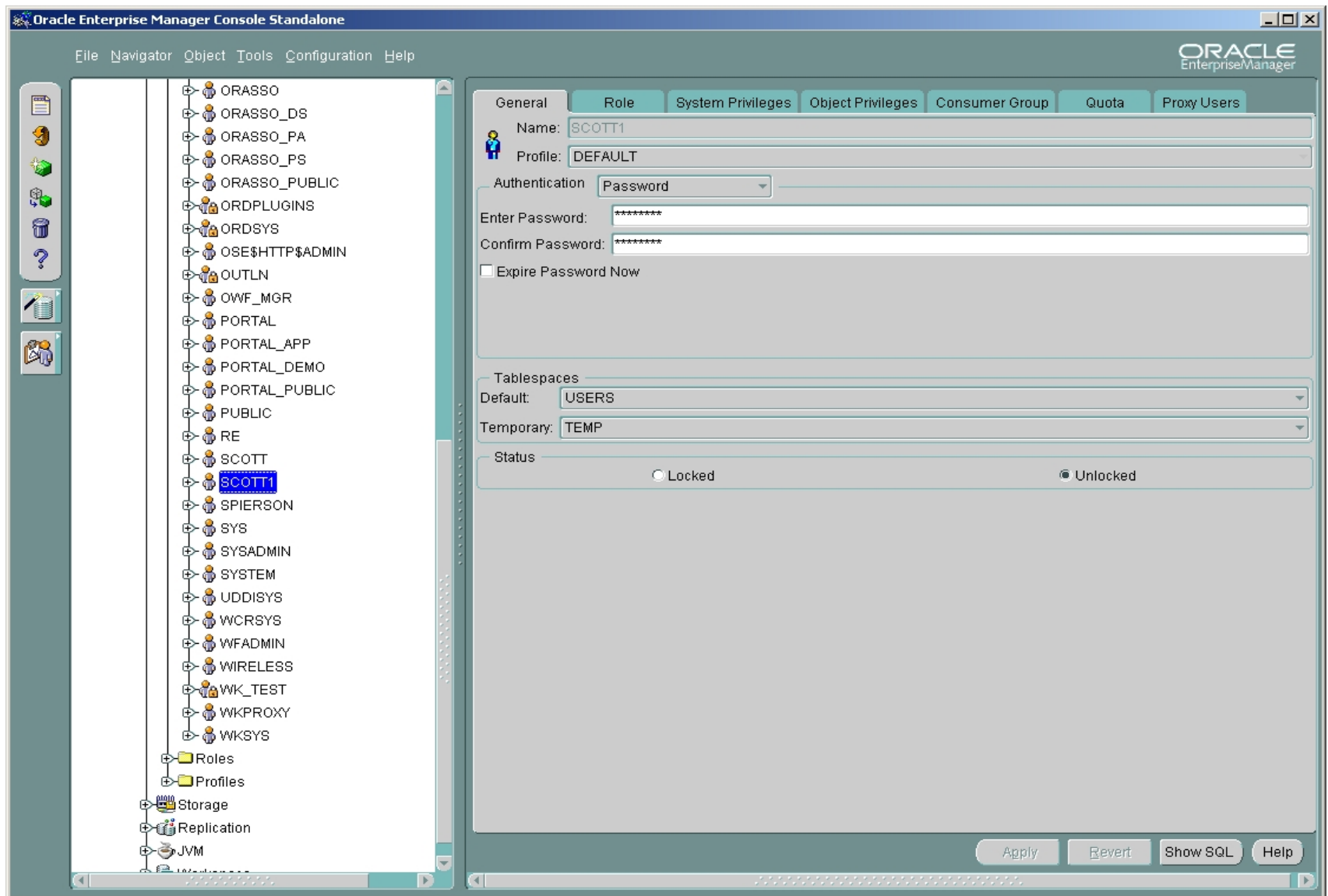
- FORCE TRANSACTION
- GLOBAL QUERY REWRITE
- GRANT ANY PRIVILEGE
- GRANT ANY ROLE
- INSERT ANY TABLE
- LOCK ANY TABLE
- MANAGE ANY QUEUE
- MANAGE TABLESPACE
- ON COMMIT REFRESH
- QUERY REWRITE
- RESTRICTED SESSION

Granted:

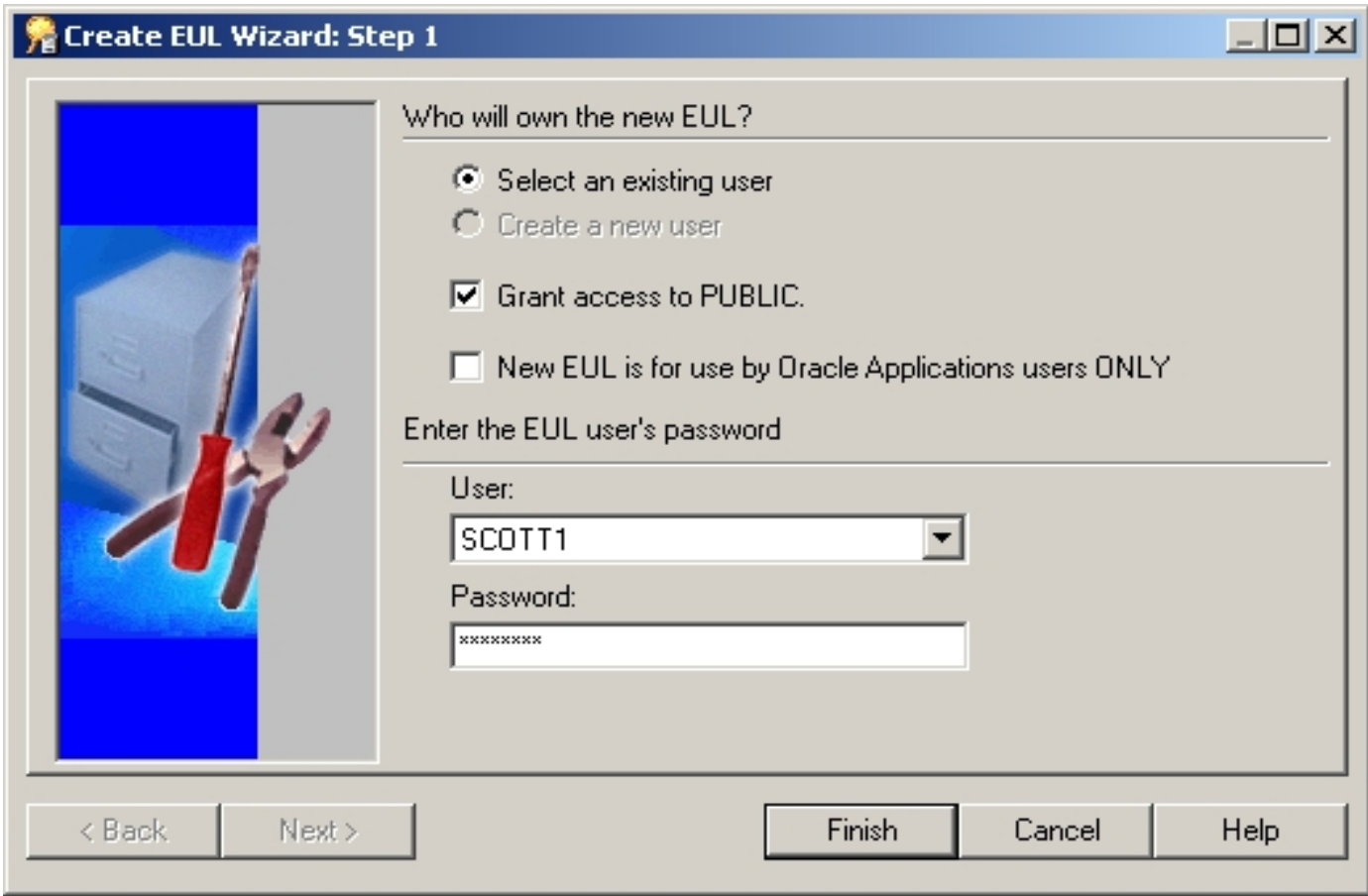
System Privilege	Admin Option
ALTER USER	☒
CREATE USER	☒
GRANT ANY PRIVILEGE	☒
UNLIMITED TABLESPACE	☒

Create Cancel Show SQL Help

10. Сохраняем созданную схему



11. Возвращаемся в Oracle Discoverer Administrator и пробуем создать End User Layer



Create EUL Wizard: Step 1

Who will own the new EUL?

☒ Select an existing user
☐ Create a new user

☒ Grant access to PUBLIC.
☐ New EUL is for use by Oracle Applications users ONLY

Enter the EUL user's password

User:
SCOTT1

Password:
xxxxxxx

< Back Next > Finish Cancel Help

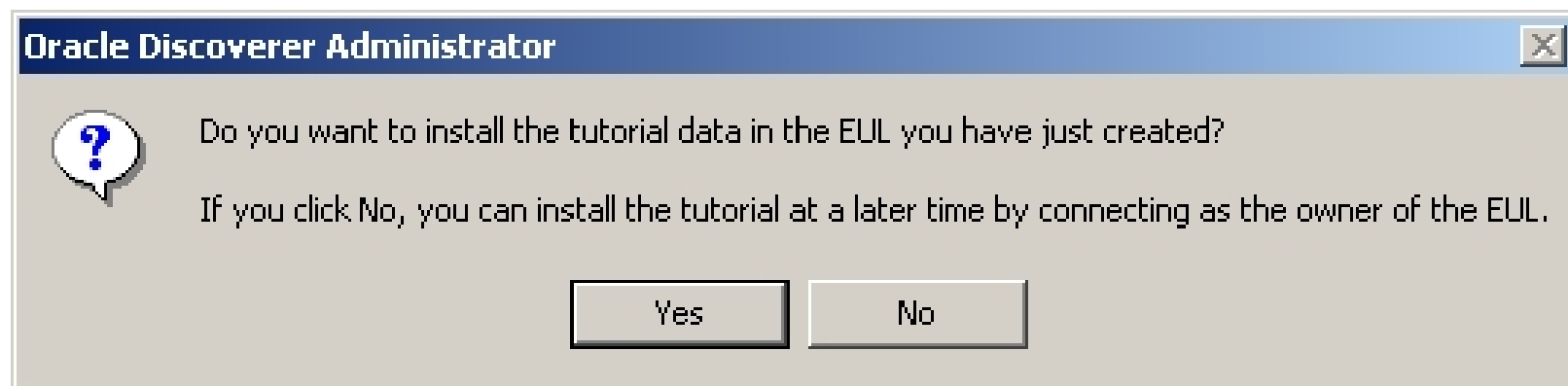
12. Создание End User Layer выполняется успешно



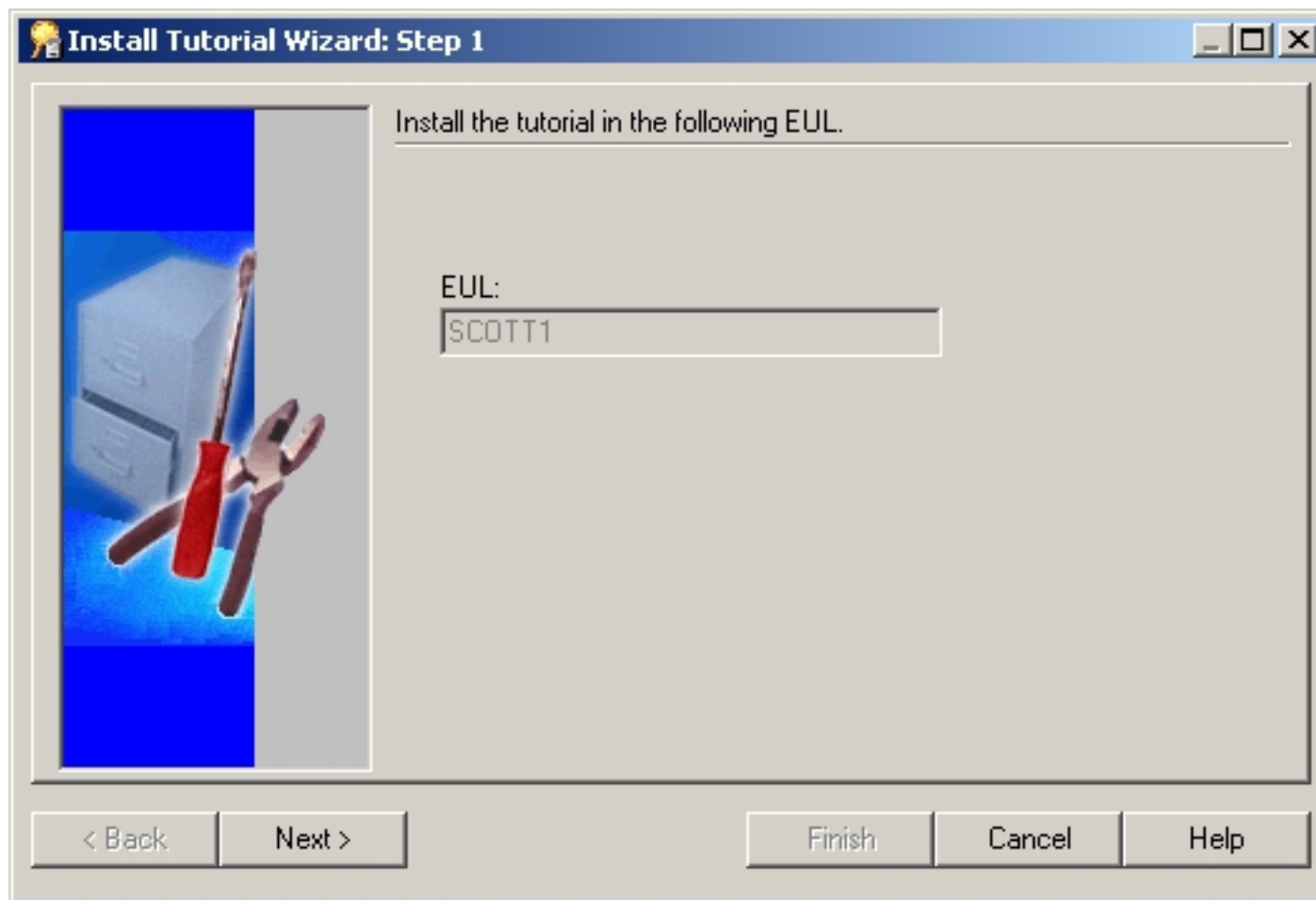
13. End User Layer создан успешно



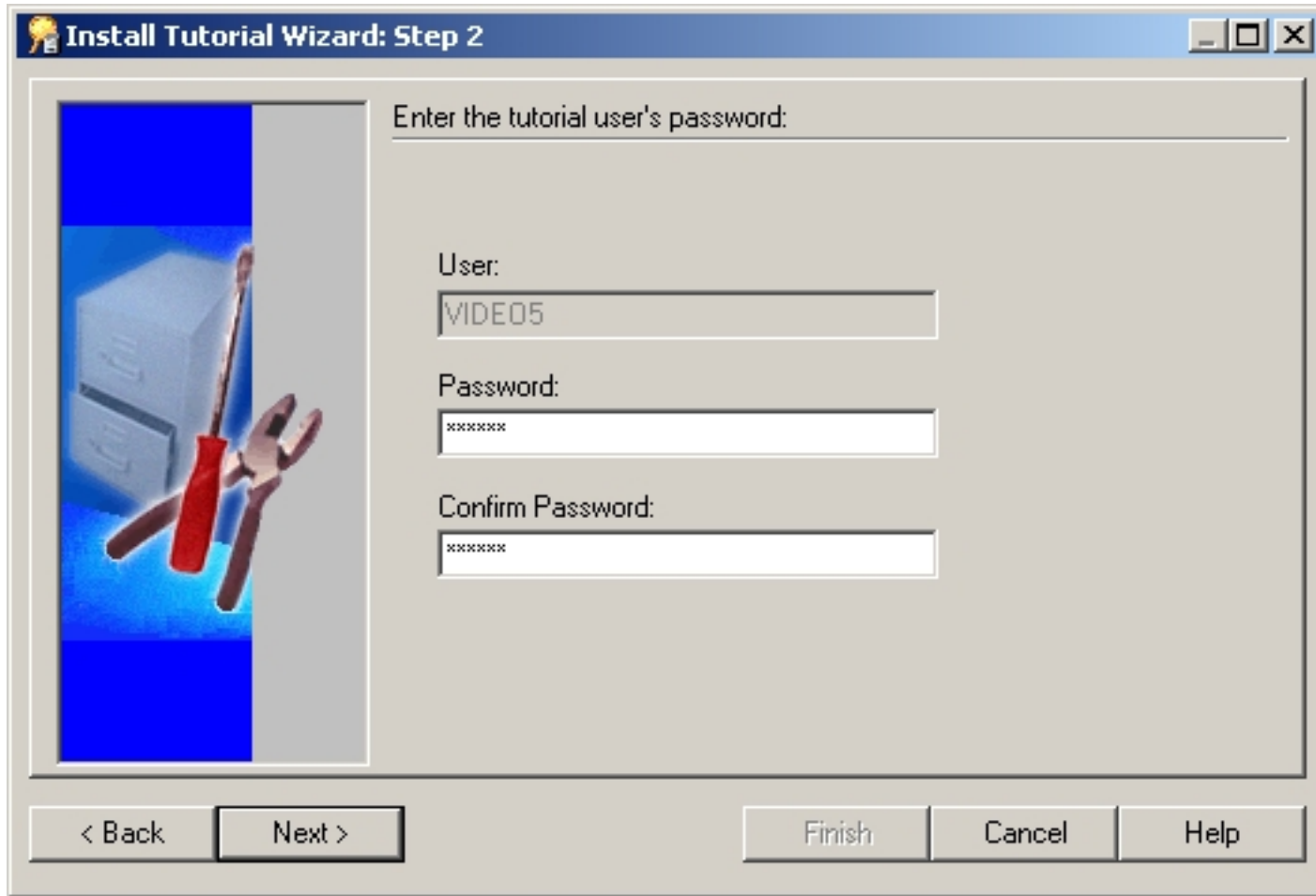
14. Запрос о создании Tutorial в созданном EUL



15. Запрос о создании Tutorial в созданном EUL



16. Запрос о создании Tutorial в созданном EUL



Install Tutorial Wizard: Step 2

Enter the tutorial user's password:

User:
VIDEO5

Password:
xxxxxx

Confirm Password:
xxxxxx

< Back Next > Finish Cancel Help

17. Запрос о создании Tutorial в созданном EUL

Install Tutorial Wizard: Step 3

Select the default tablespace (minimum 3 MB) and the temporary tablespace for the new user.

Default Tablespace:

Tablespace	MB Free	Auto Ext.
SYSTEM	3.00	
UDDISYS_TS	2.00	
UNDOTBS	74.00	
USERS	1,535.00	
WCRCYS_TS	.00	

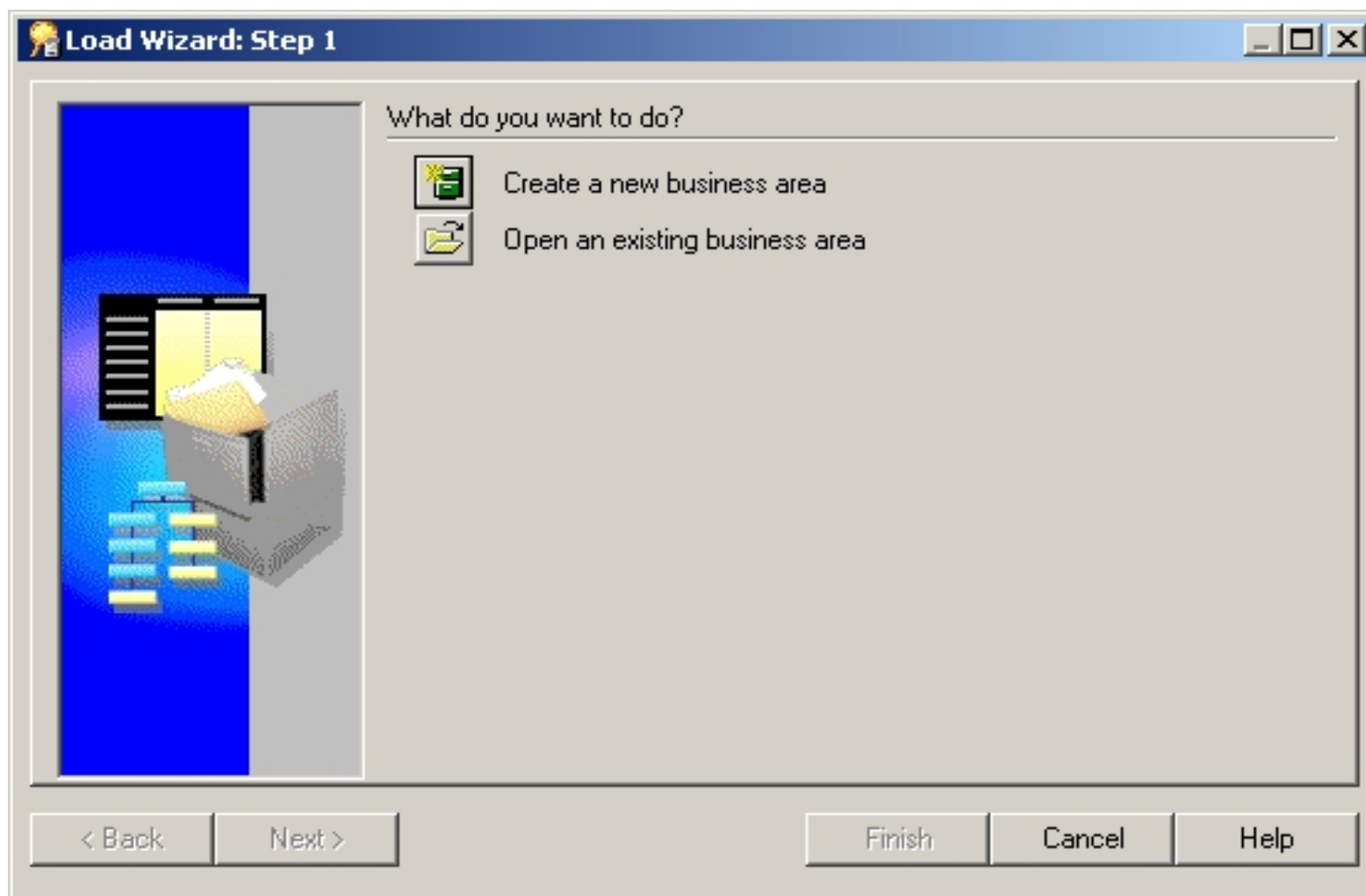
Temporary Tablespace:

Tablespace	MB Free	Auto Ext.
TEMP		
UDDISYS_TS	2.00	
UNDOTBS	74.00	
USERS	1,535.00	
WCRCYS_TS	.00	

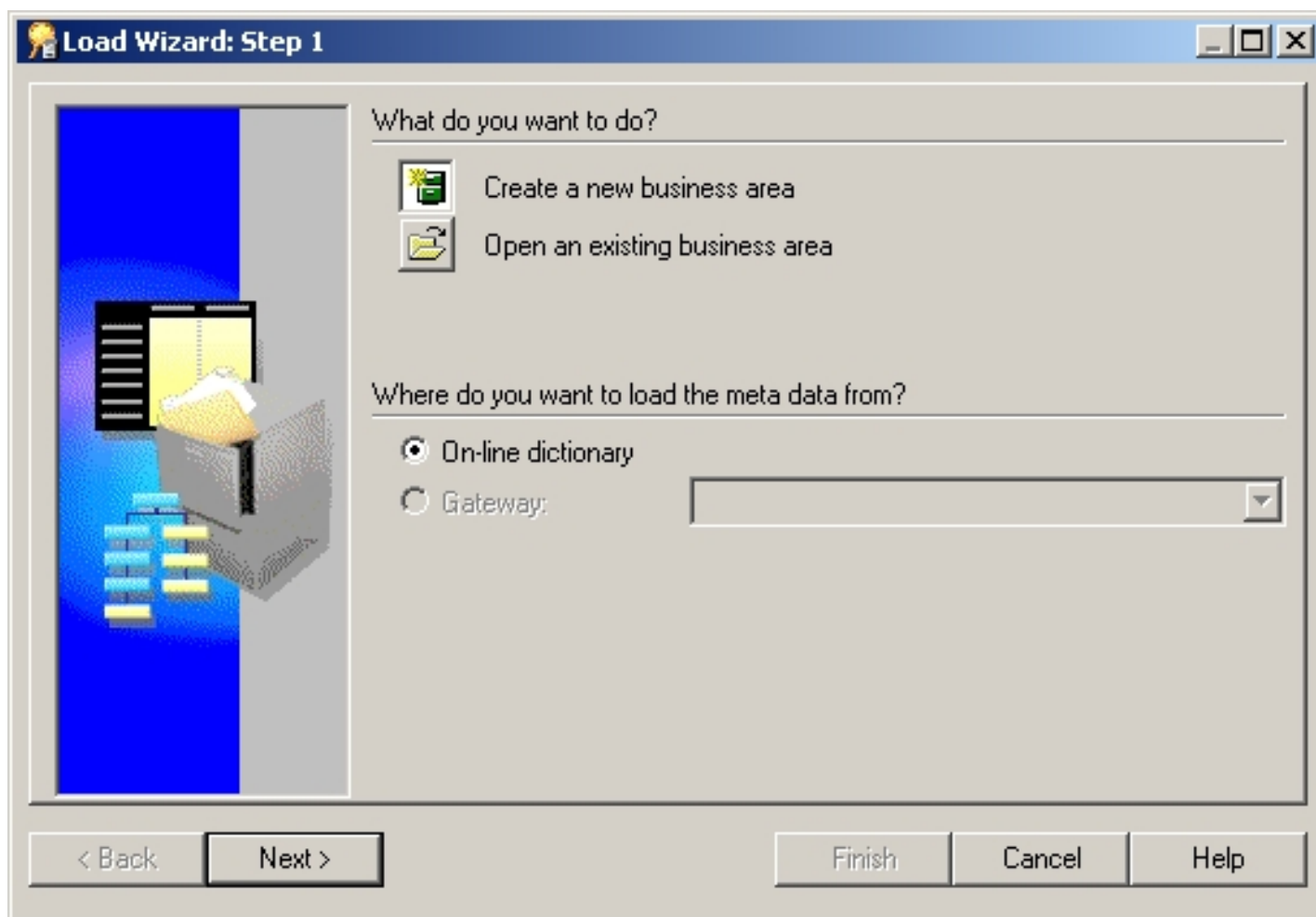
< Back Next >

Finish Cancel Help

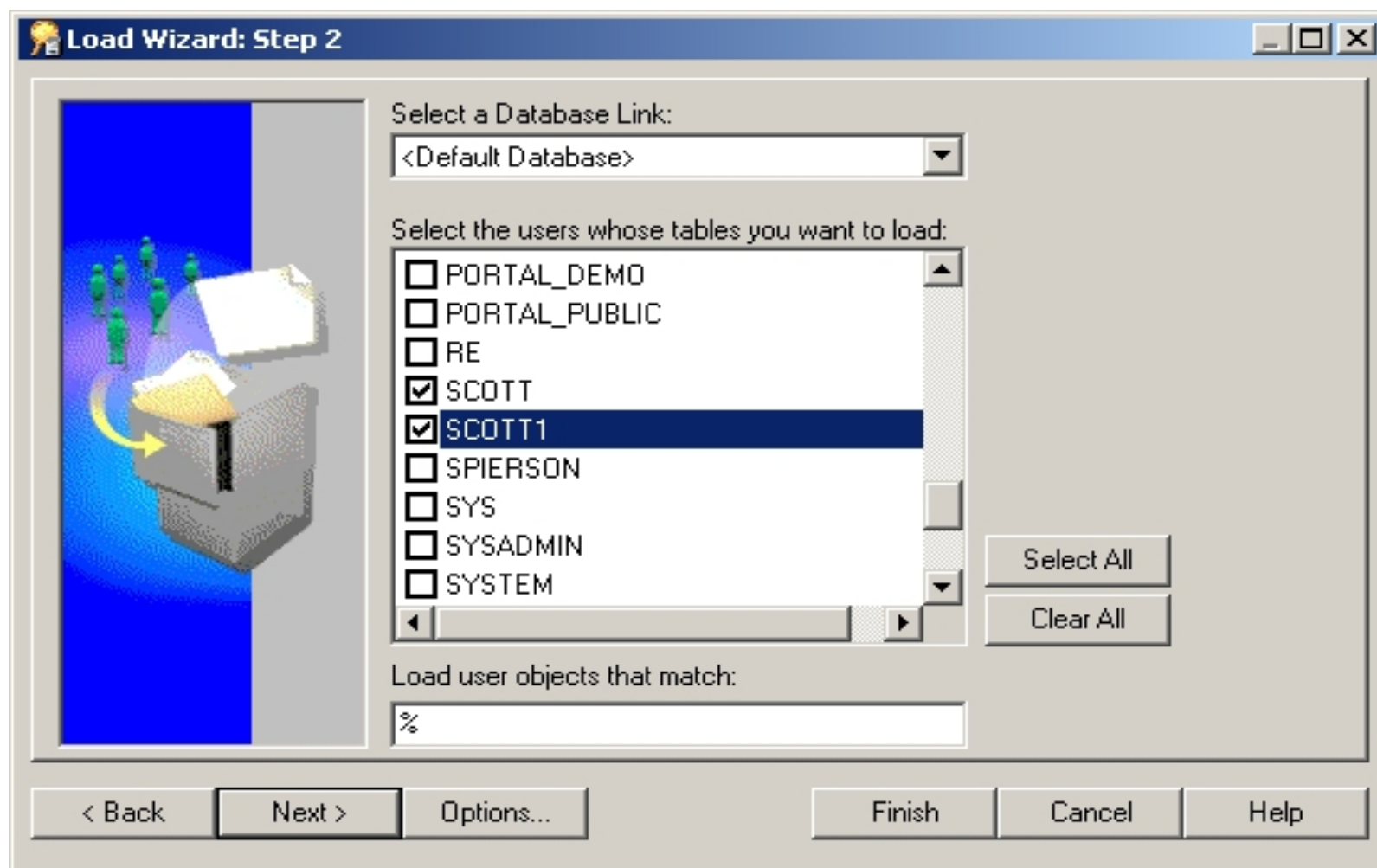
18. Создание новой Business Area в EUL.



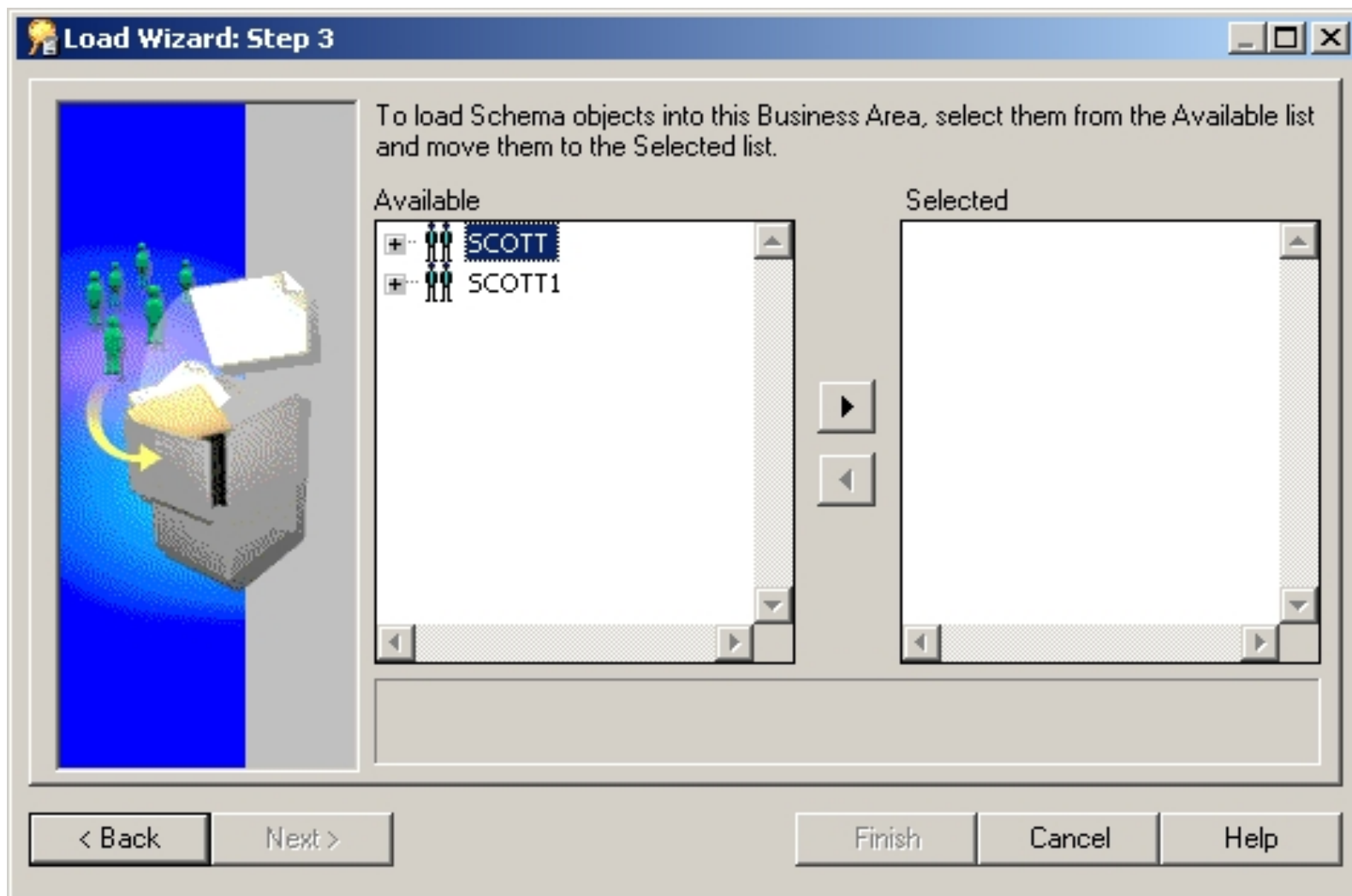
19. Создание новой Business Area в EUL.



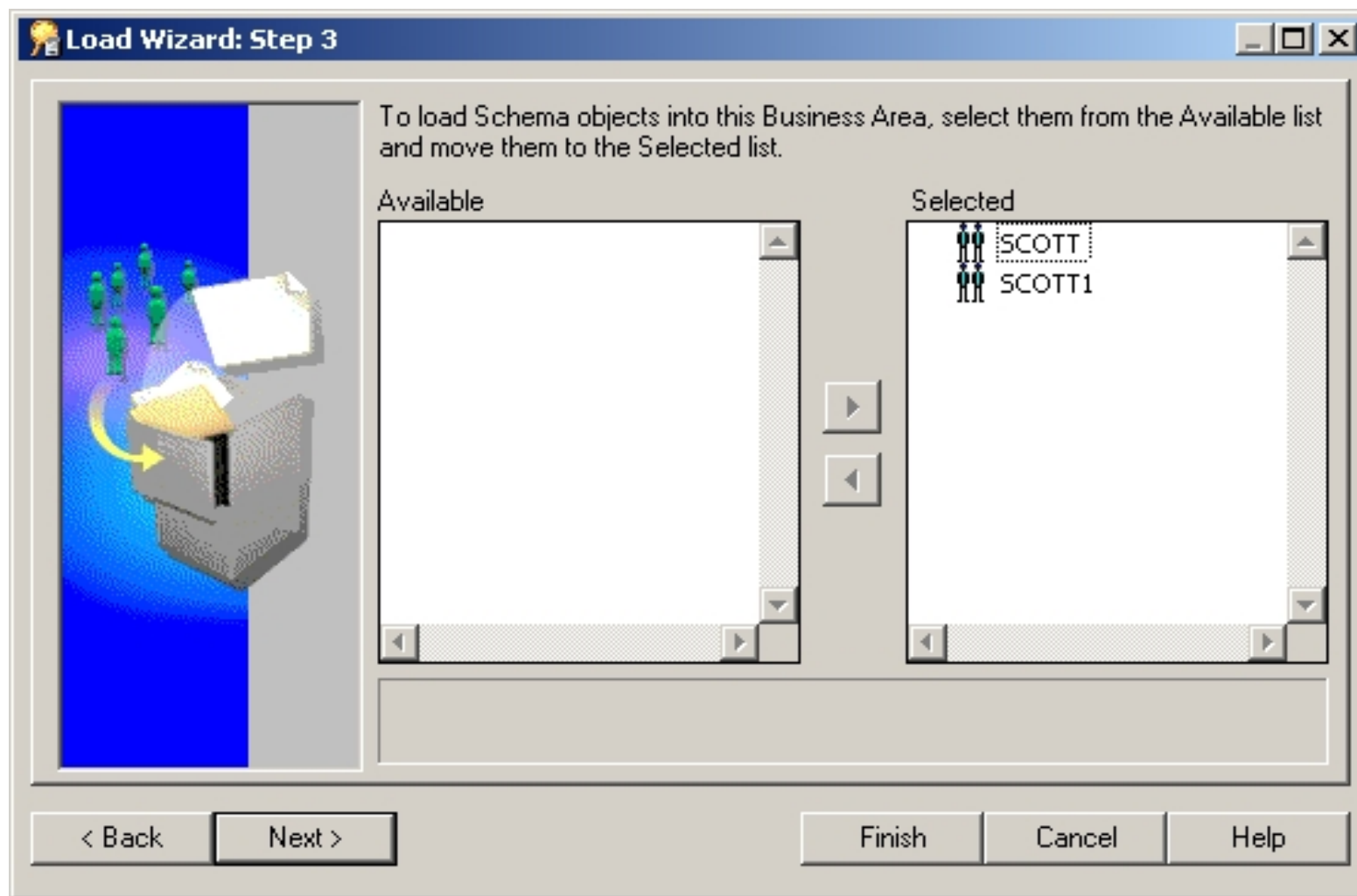
20. Создание новой Business Area в EUL.



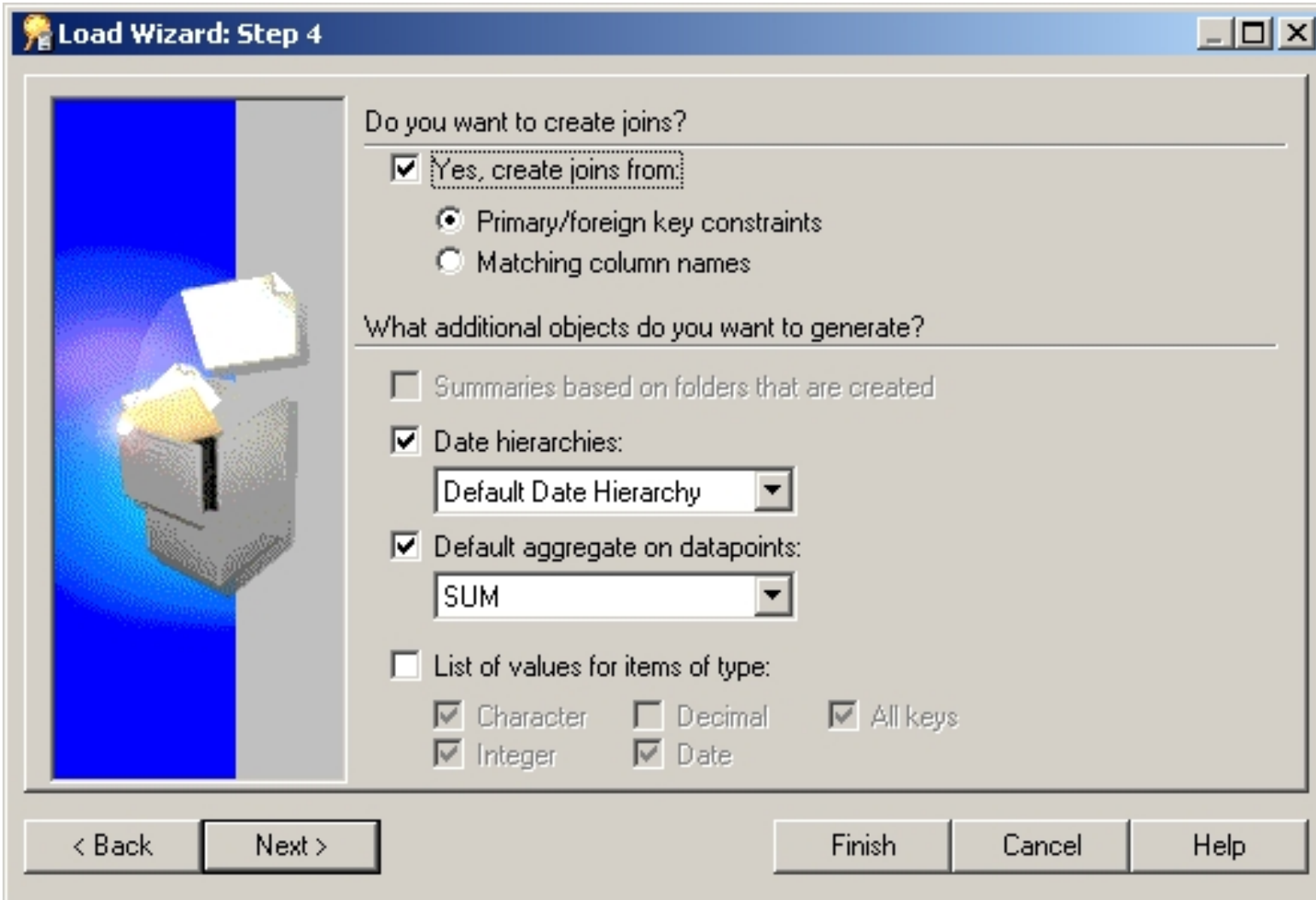
21. Создание новой Business Area в EUL.



22. Создание новой Business Area в EUL.



23. Создание новой Business Area в EUL.



Load Wizard: Step 4

Do you want to create joins?

☒ Yes, create joins from:

- ☒ Primary/foreign key constraints
- ☐ Matching column names

What additional objects do you want to generate?

☐ Summaries based on folders that are created

☒ Date hierarchies:
Default Date Hierarchy

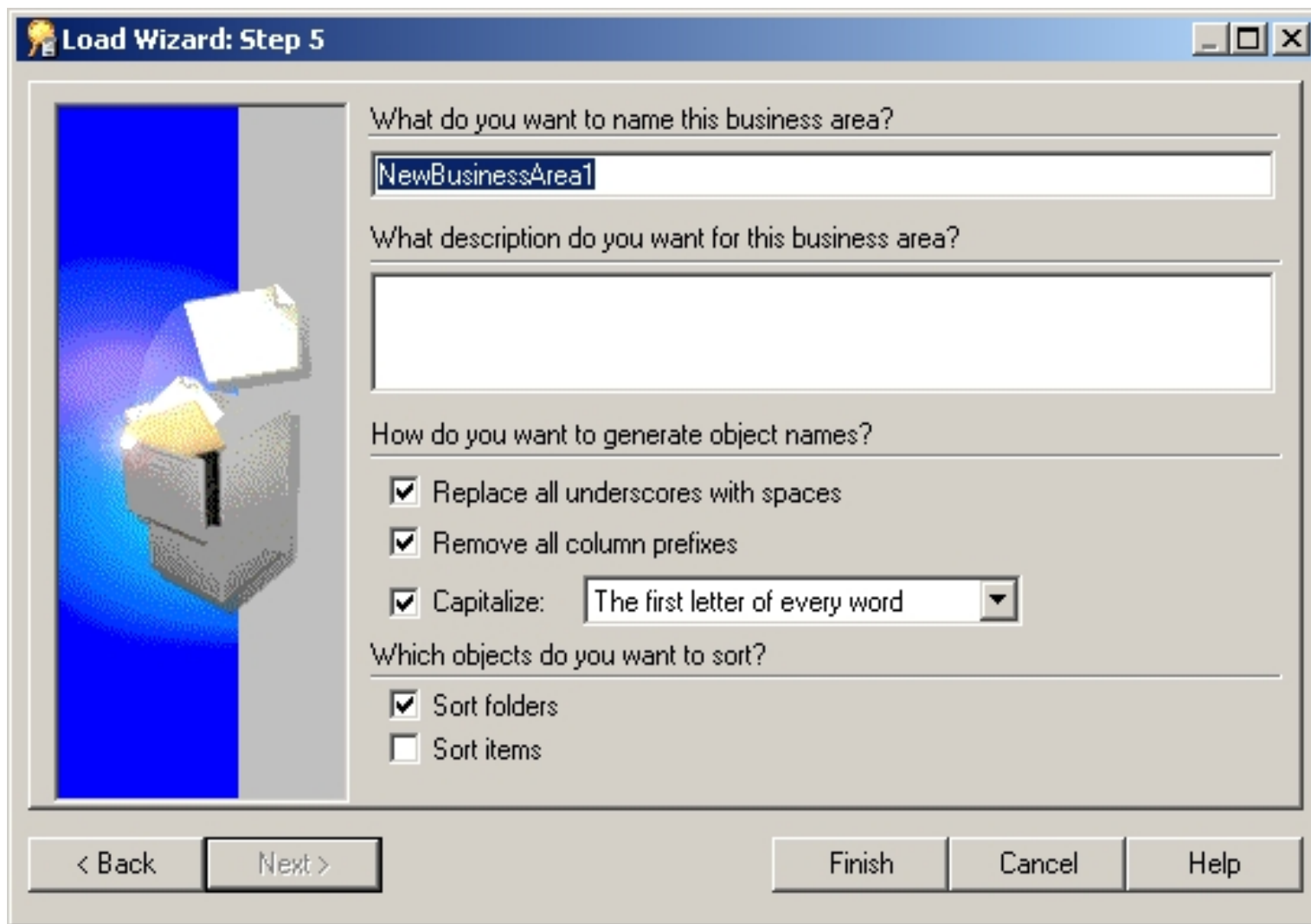
☒ Default aggregate on datapoints:
SUM

☐ List of values for items of type:

- ☒ Character
- ☒ Integer
- ☐ Decimal
- ☒ Date
- ☒ All keys

< Back Next > Finish Cancel Help

24. Создание новой Business Area в EUL.

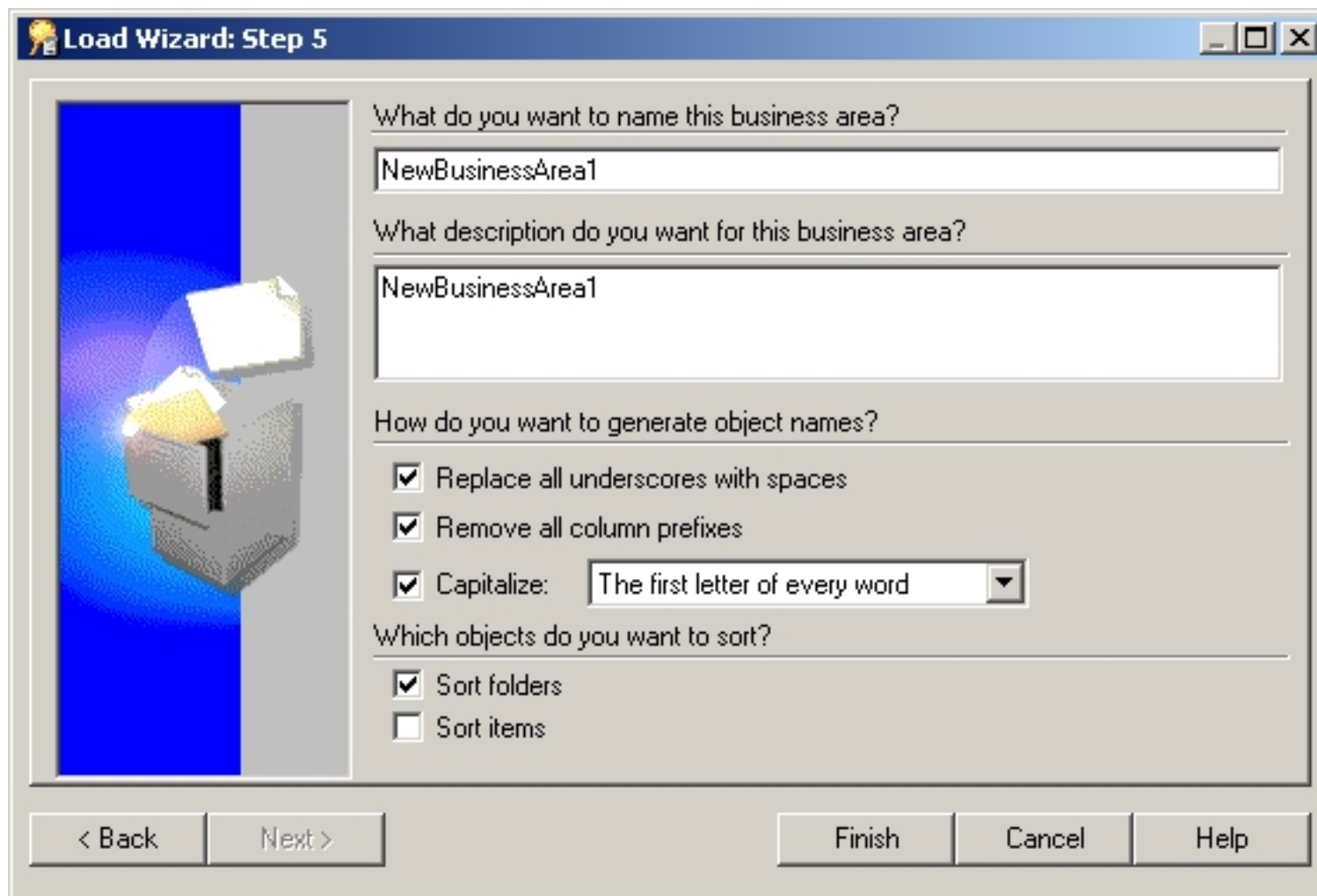


The screenshot shows a Windows-style dialog box titled "Load Wizard: Step 5". On the left is a vertical blue bar with a 3D folder icon. The main area contains four sections for configuring a new business area:

- What do you want to name this business area?**
A text box contains "NewBusinessArea1".
- What description do you want for this business area?**
An empty text box.
- How do you want to generate object names?**
 - ☒ Replace all underscores with spaces
 - ☒ Remove all column prefixes
 - ☒ Capitalize: The first letter of every word (dropdown menu)
- Which objects do you want to sort?**
 - ☒ Sort folders
 - ☐ Sort items

At the bottom are four buttons: "< Back", "Next >", "Finish", "Cancel", and "Help".

25. Создание новой Business Area в EUL.



Load Wizard: Step 5

What do you want to name this business area?

NewBusinessArea1

What description do you want for this business area?

NewBusinessArea1

How do you want to generate object names?

☒ Replace all underscores with spaces

☒ Remove all column prefixes

☒ Capitalize: The first letter of every word

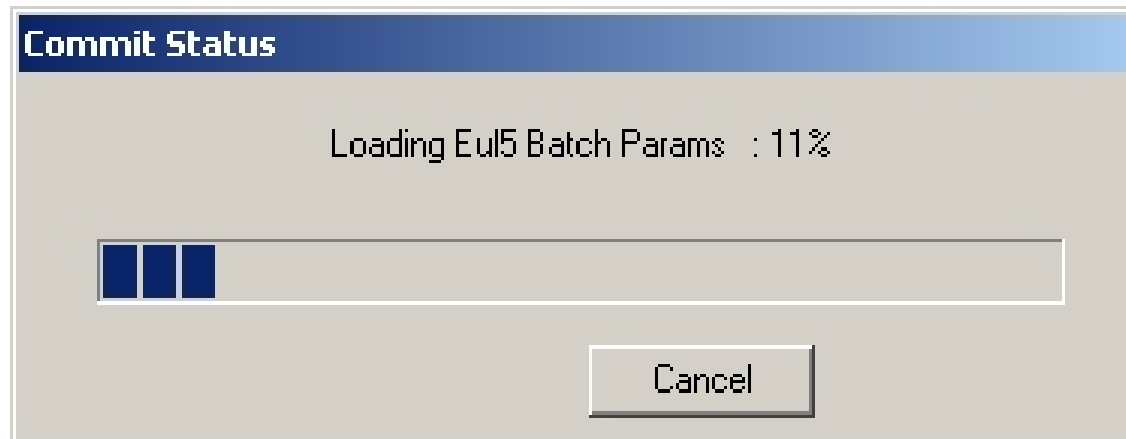
Which objects do you want to sort?

☒ Sort folders

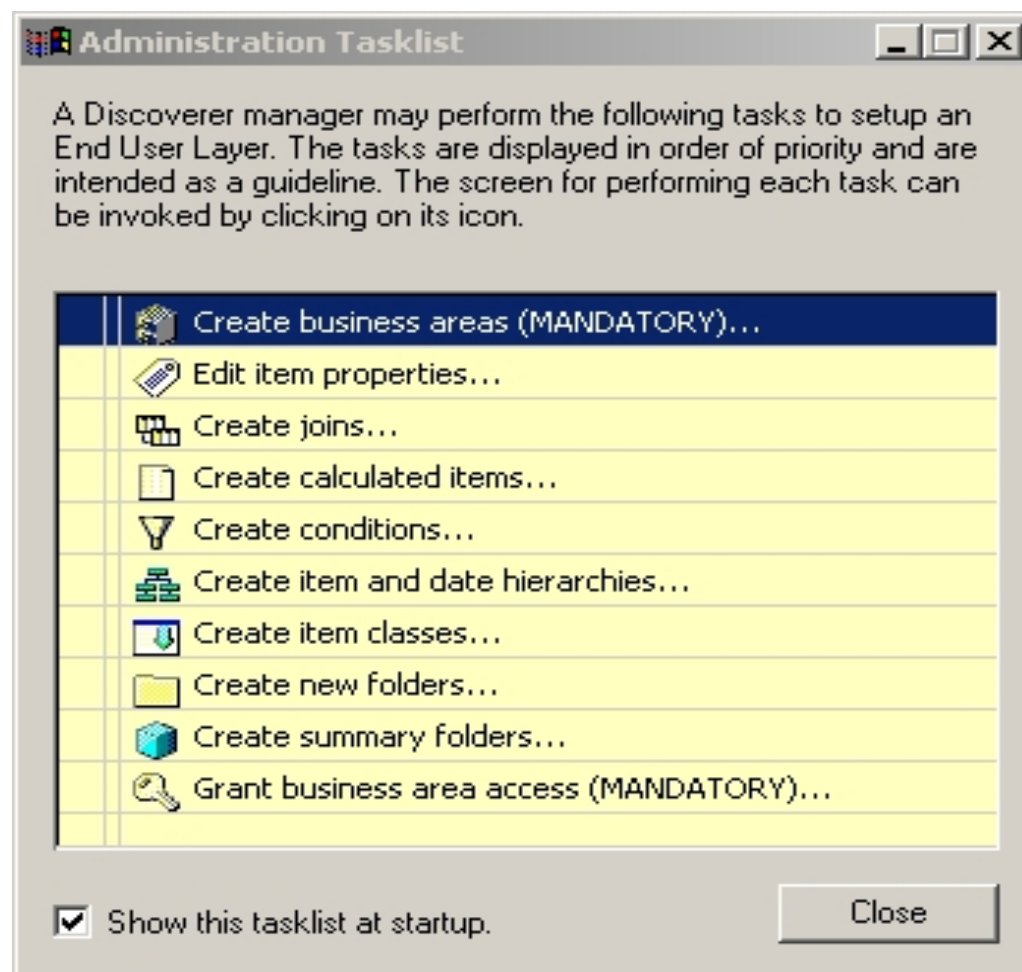
☐ Sort items

< Back Next > Finish Cancel Help

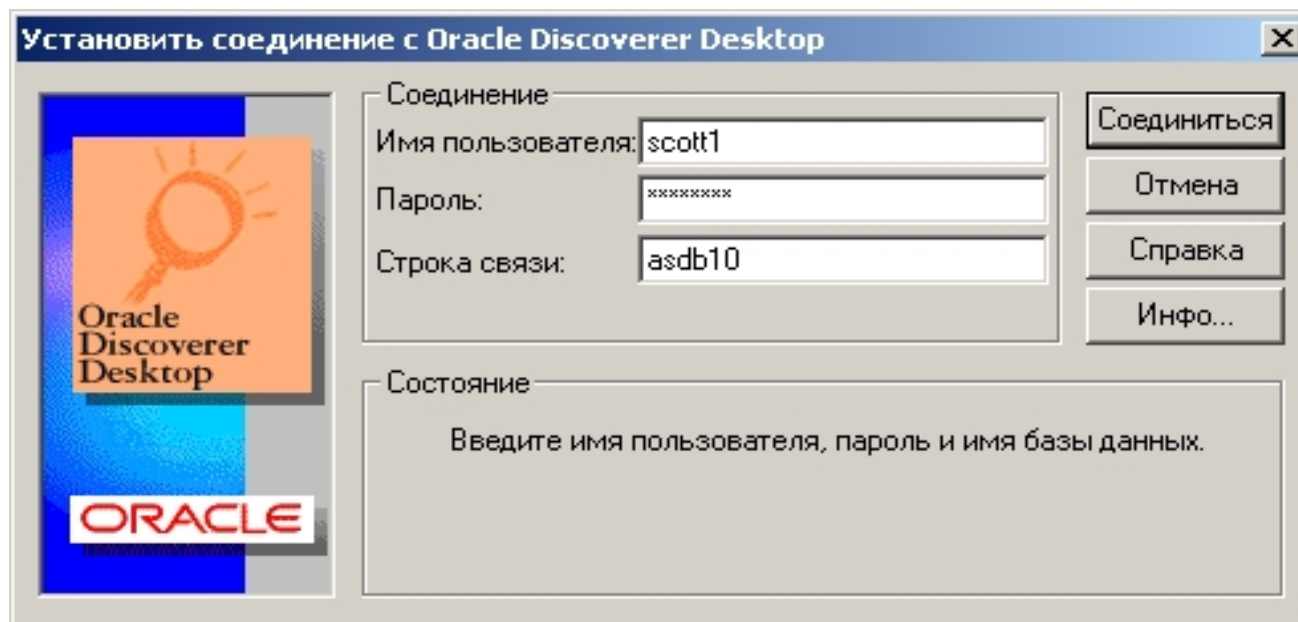
26. Создание новой Business Area в EUL.



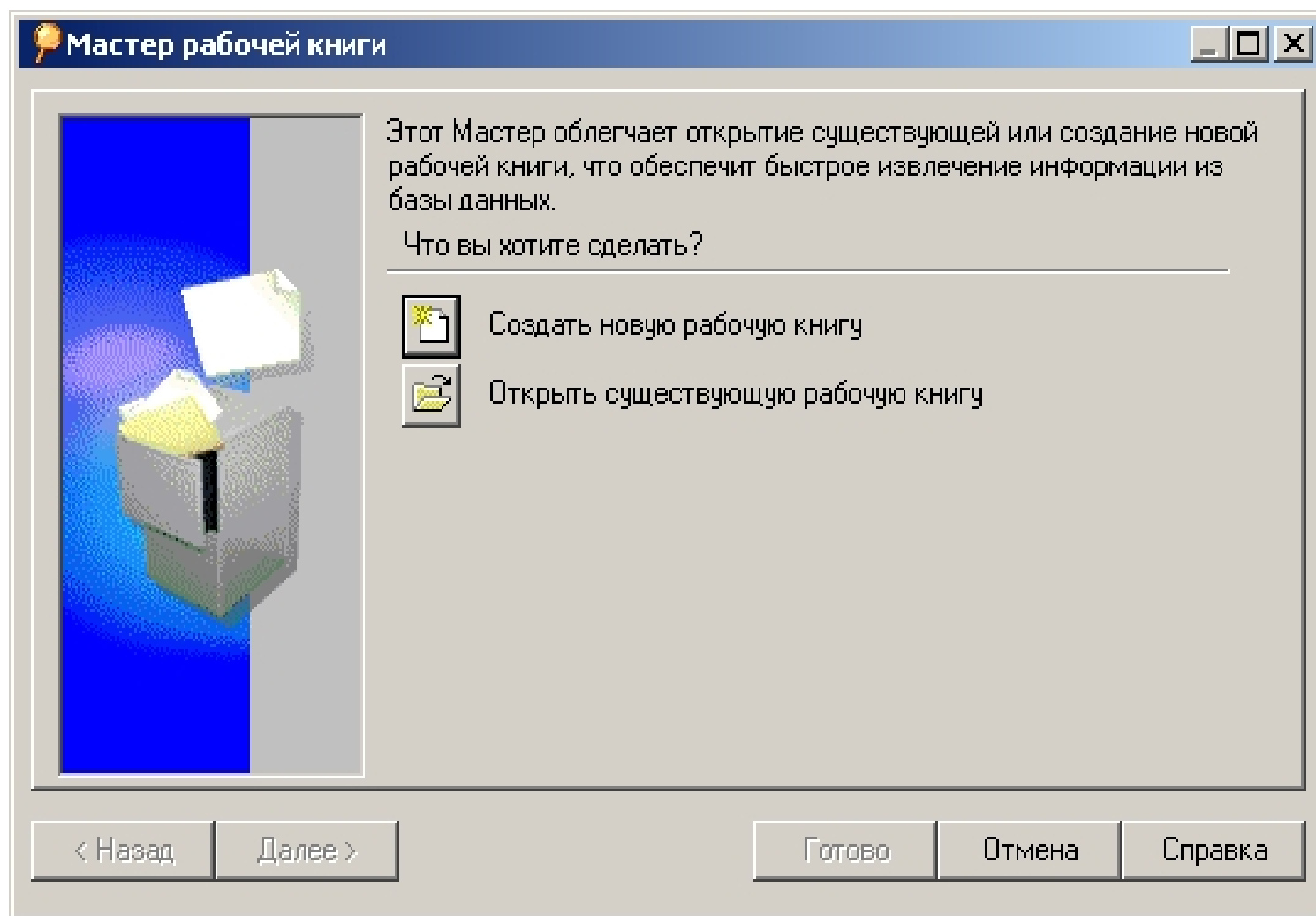
27. Предложения Oracle Discoverer Administrator после создания новой Business Area.



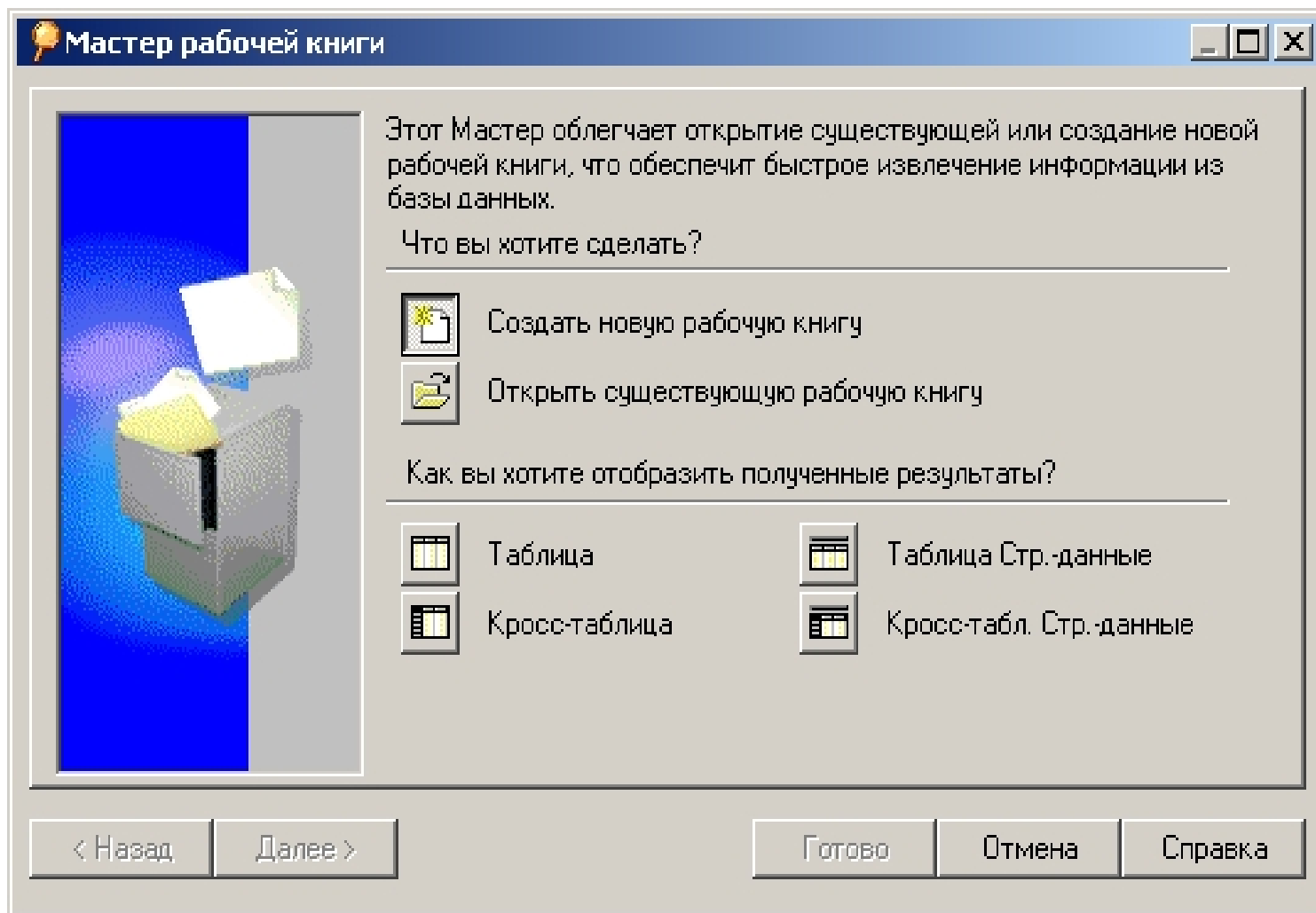
28. Вход в Oracle Discoverer Desktop после работы с Oracle Discoverer Administrator.



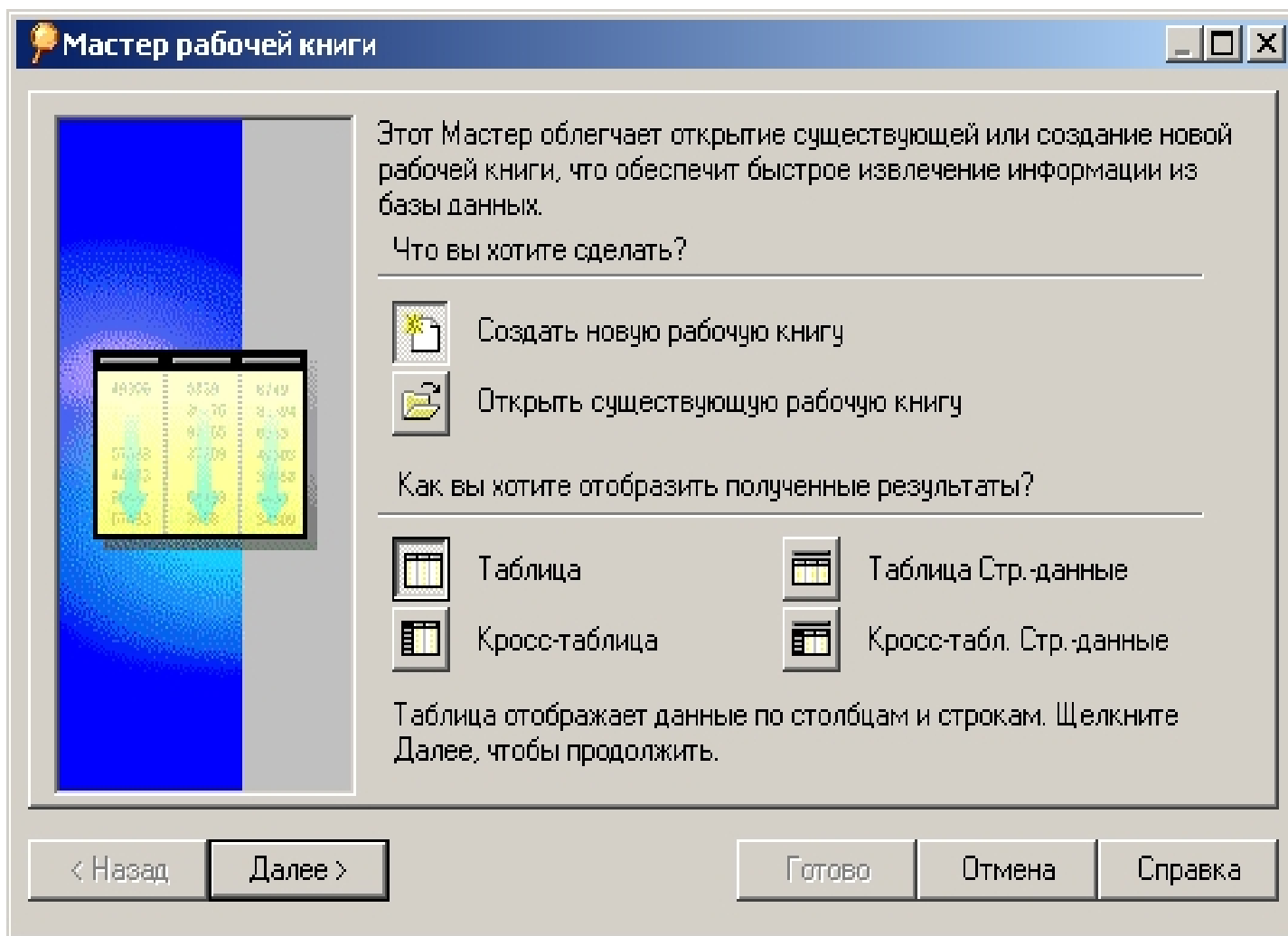
29. Запуск мастера рабочей книги.



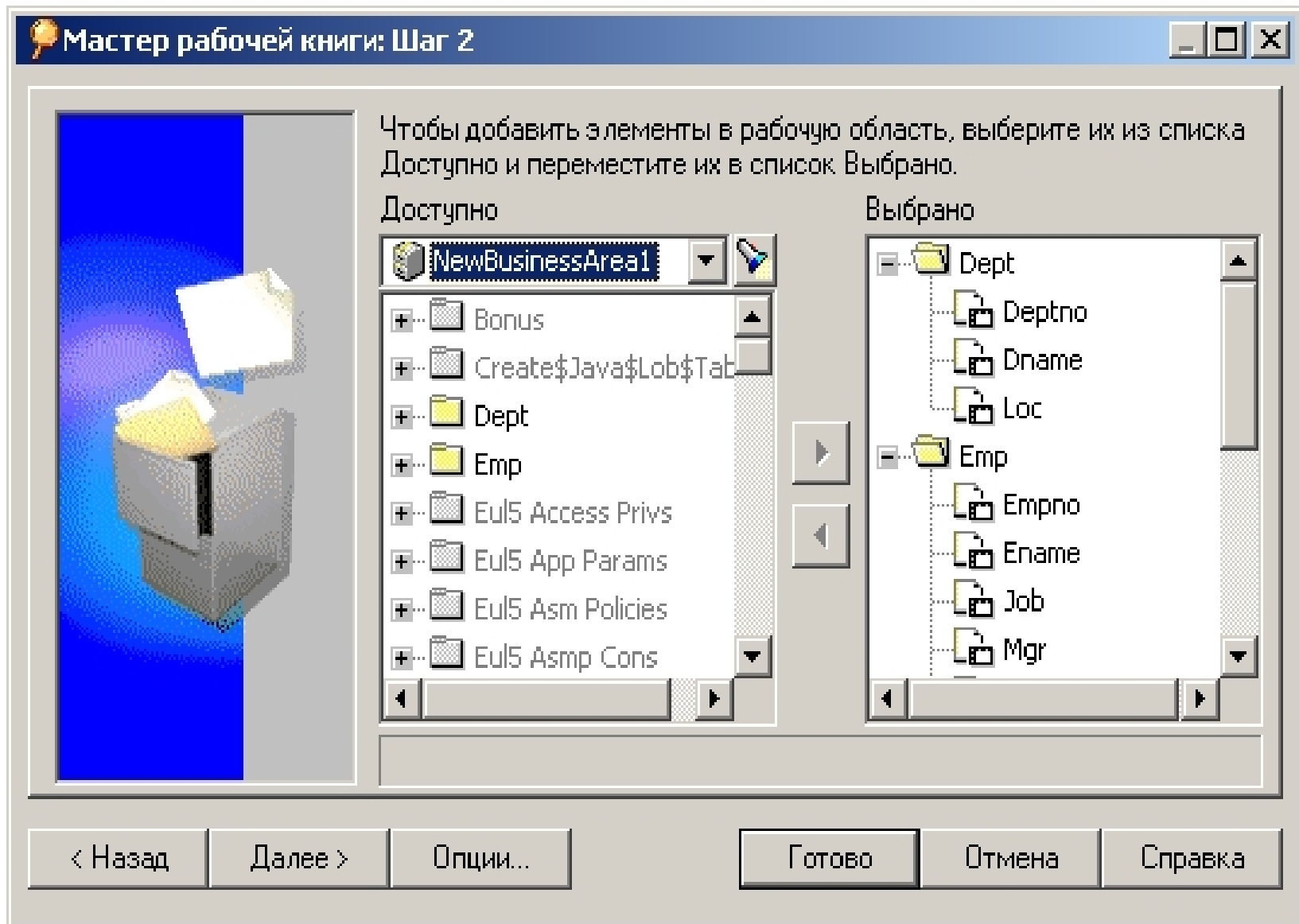
30. Мастер рабочей книги.



31. Мастер рабочей книги.



32. Мастер рабочей книги



33. Мастер рабочей книги.

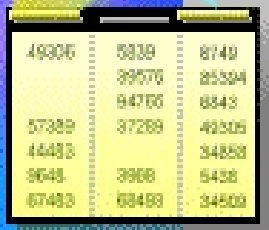
 Мастер рабочей книги: Шаг 3

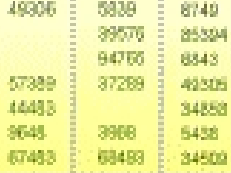
Чтобы изменить положение элемента в рабочей области, щелкните на нем и отбуксируйте его на нужную позицию.

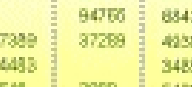
☐ Показать элементы страницы ☐ Убирать одинаковые строки

	Deptno	Dname	Loc	Empno	Ename	Job	Mgr	Hiredate	Sal SUM
1									
2									
3									
4									
5									
6									
7									
8									
9									
10									

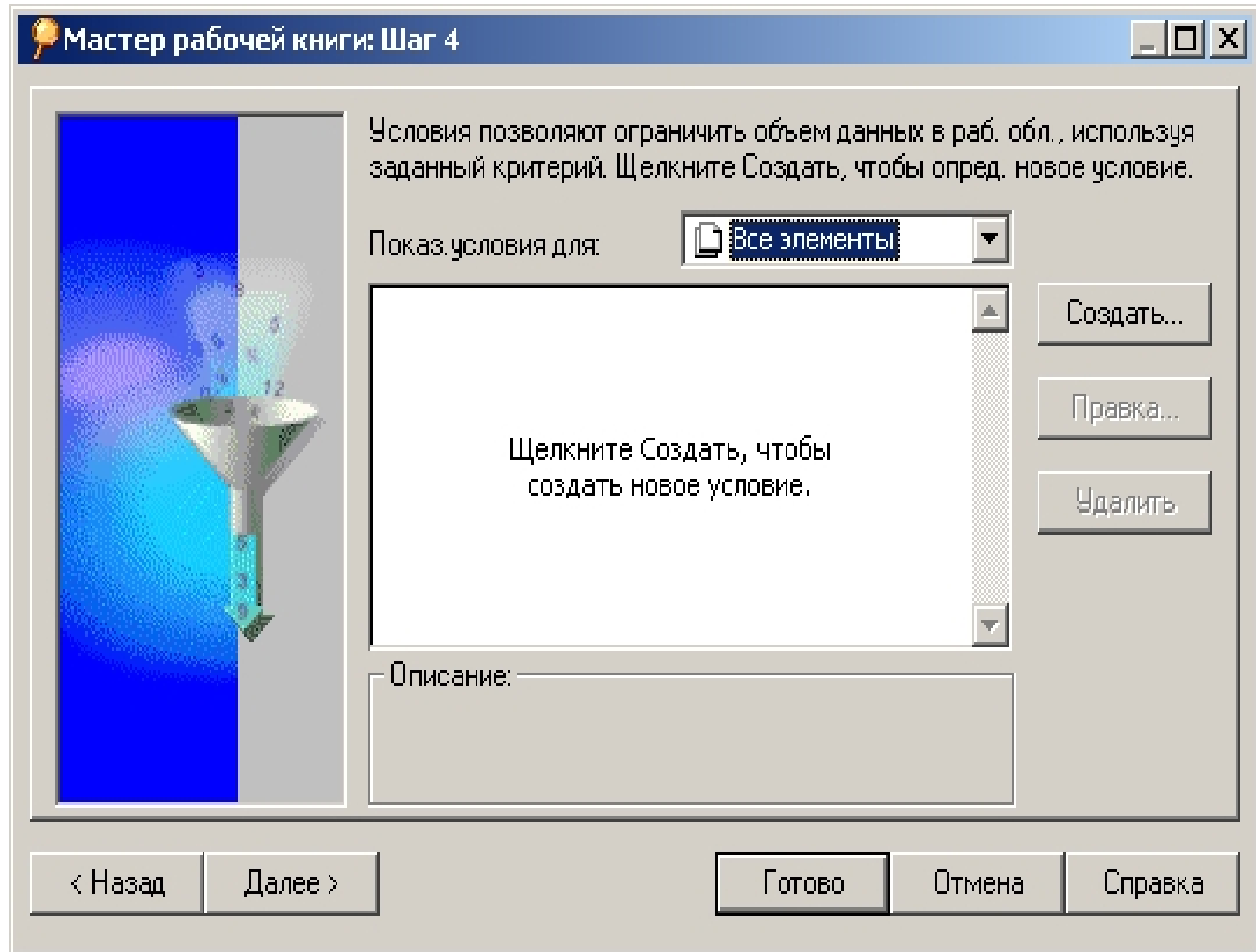




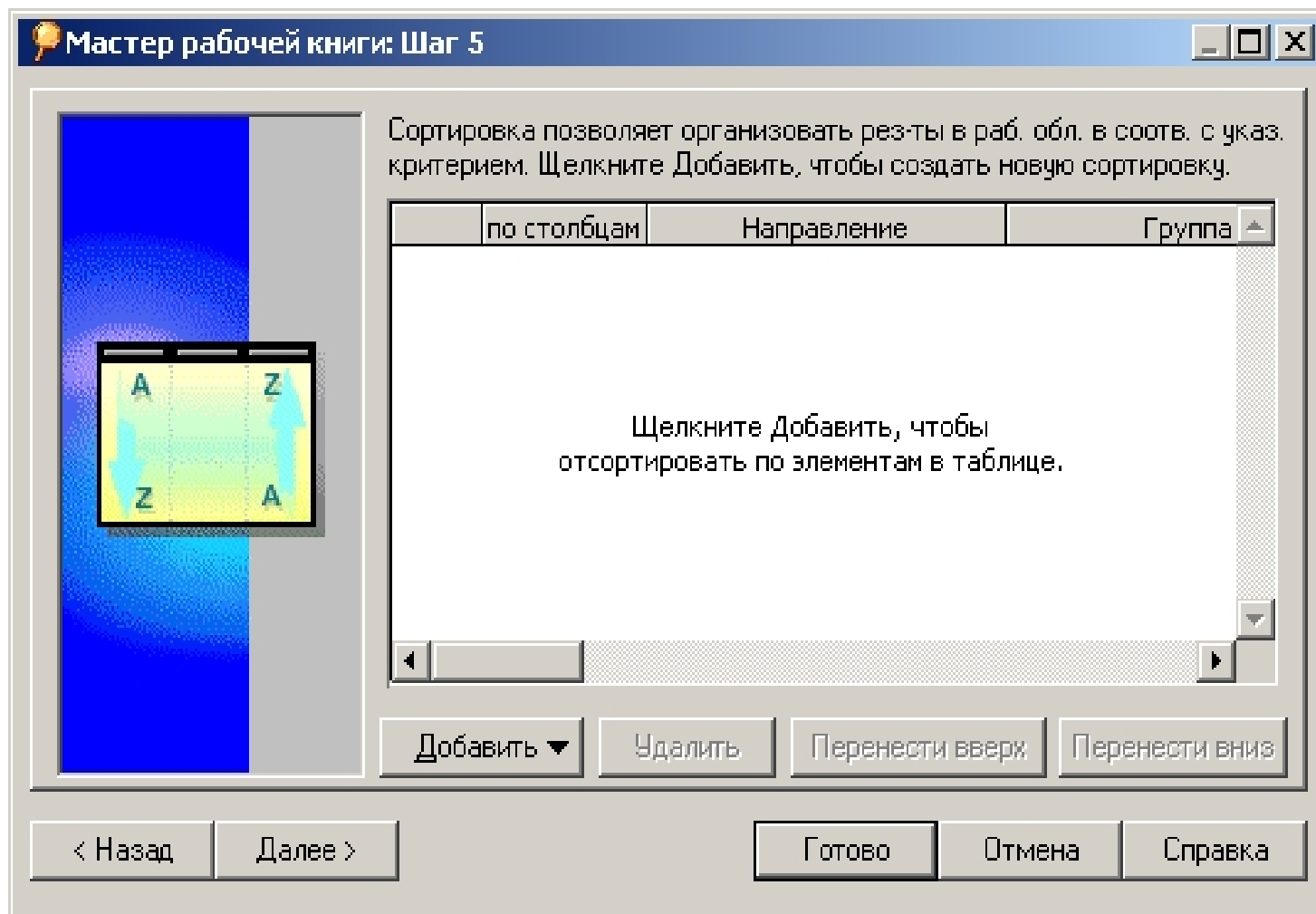




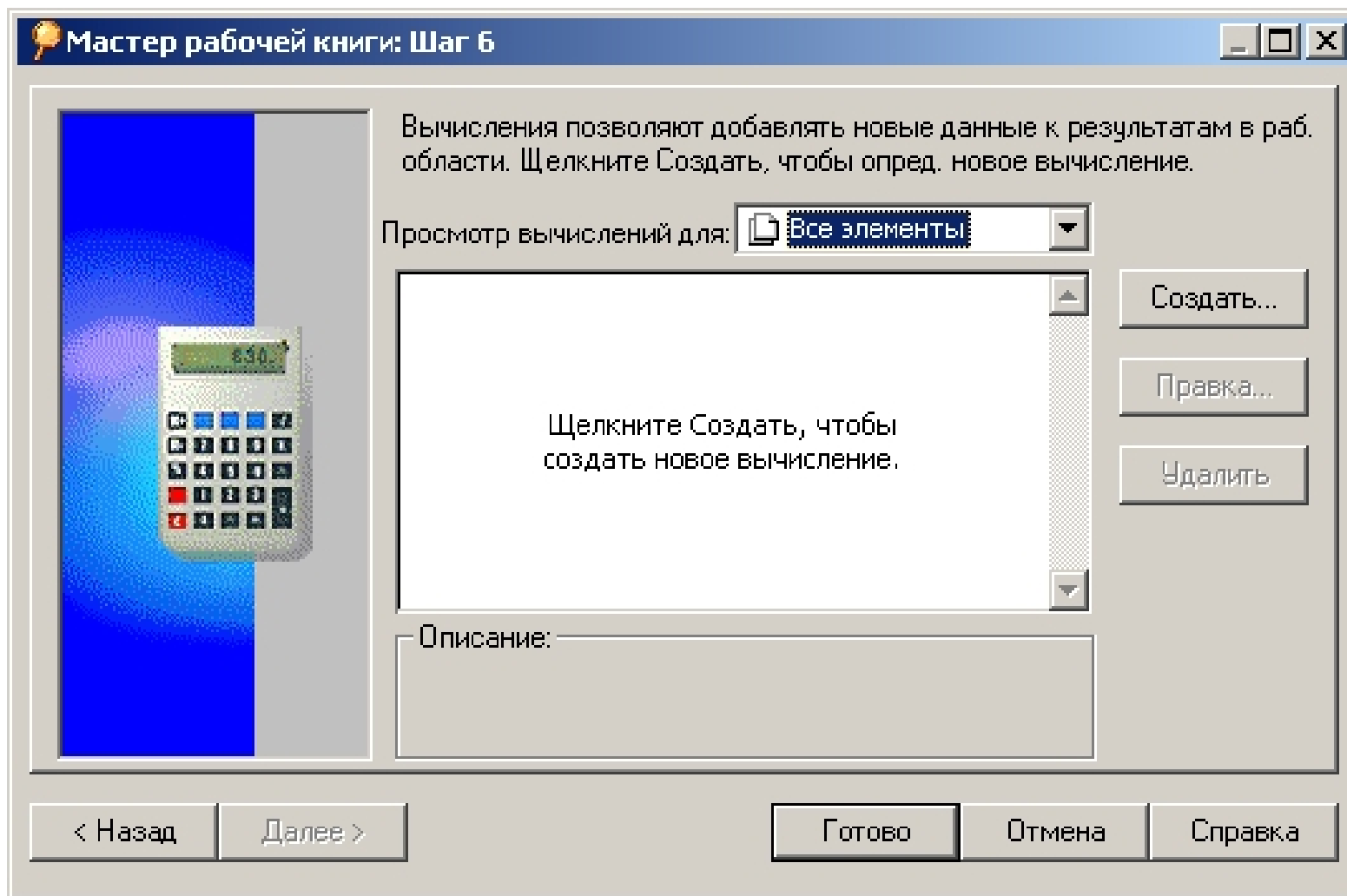
34. Мастер рабочей книги.



35. Мастер рабочей книги.



36. Мастер рабочей книги.



37. Результат, занесенный в рабочую книгу.

Oracle Discoverer Desktop - [Рабочая книга1]

Файл Правка Вид Лист Формат Инструменты Диаграмма Окно Справка

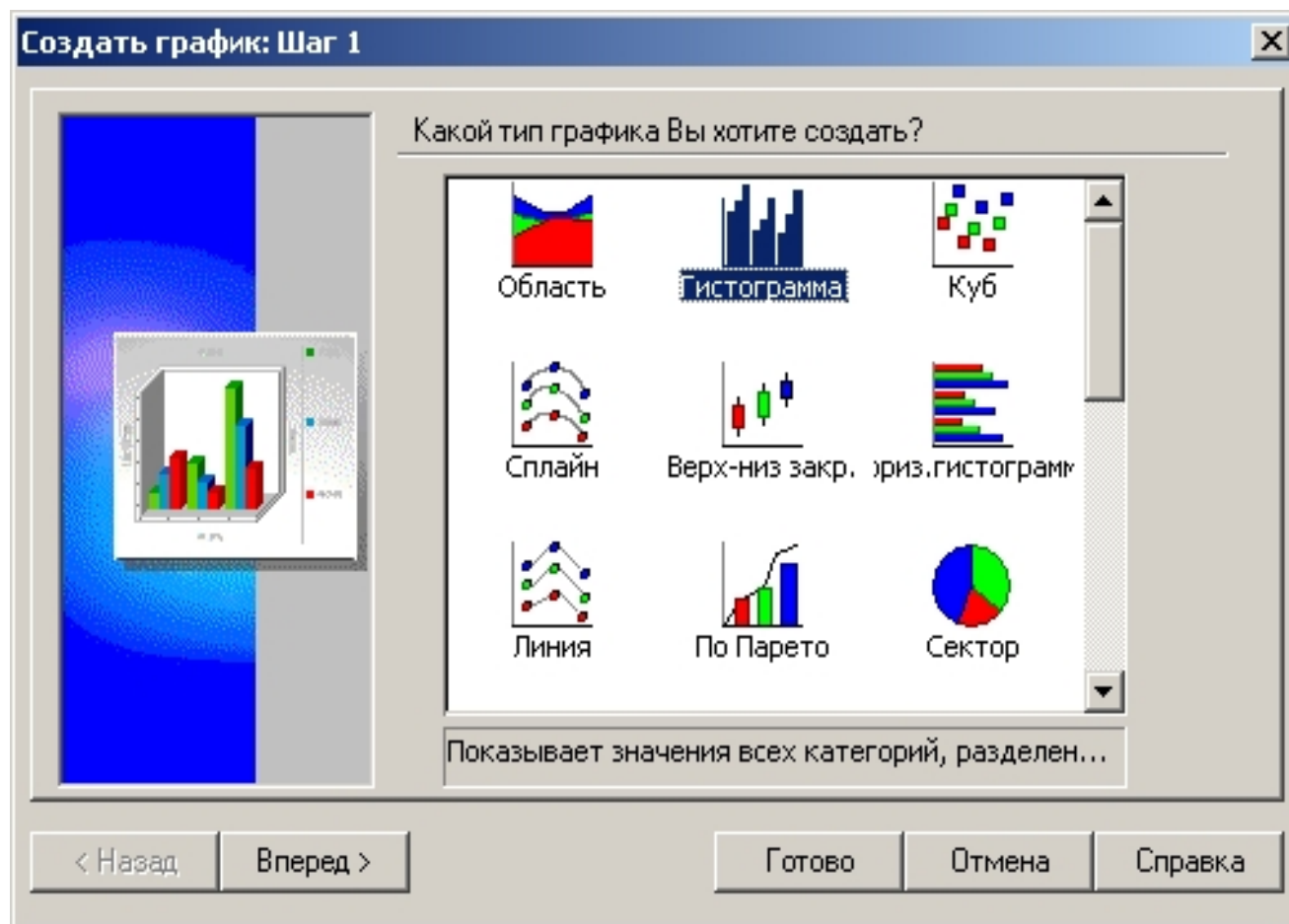
Tahoma 8 B U

Для редактирования этого названия дважды щелкните мышкой здесь.

	Deptno	Dname	Loc	Empno	Ename	Job	Mgr	Hiredate	Sal SUM	Comm SUM	Deptno	Hiredate: Year	Hiredate: Quarter	Hiredate: Month	Hiredate: Day
1	10	ACCOUNTING	NEW	7782	CLARK	MAN	7839	09-ИЮН-19	2450,00		10	1981	Q2	Июн	09
2	10	ACCOUNTING	NEW	7789	KING	PRES		17-НОЯ-19	5000,00		10	1981	Q4	Ноя	17
3	10	ACCOUNTING	NEW	7934	MILLER	CLER	7782	23-ЯНВ-19	1300,00		10	1982	Q1	Янв	23
4	20	RESEARCH	DAL	7369	SMITH	CLER	7902	17-ДЕК-19	800,00		20	1980	Q4	Дек	17
5	20	RESEARCH	DAL	7566	JONES	MAN	7839	02-АПР-19	2975,00		20	1981	Q2	Апр	02
6	20	RESEARCH	DAL	7788	SCOTT	ANAL	7566	19-АПР-19	3000,00		20	1987	Q2	Апр	19
7	20	RESEARCH	DAL	7876	ADAMS	CLER	7788	23-МАЙ-19	1100,00		20	1987	Q2	Май	23
8	20	RESEARCH	DAL	7902	FORD	ANAL	7566	03-ДЕК-19	3000,00		20	1981	Q4	Дек	03
9	30	SALES	CHI	7499	ALLEN	SALE	7698	20-ФЕВ-19	1600,00	300,00	30	1981	Q1	Фев	20
10	30	SALES	CHI	7521	WARD	SALE	7698	22-ФЕВ-19	1250,00	500,00	30	1981	Q1	Фев	22
11	30	SALES	CHI	7654	MARTIN	SALE	7698	28-СЕН-19	1250,00	1400,00	30	1981	Q3	Сен	28
12	30	SALES	CHI	7698	BLAKE	MAN	7839	01-МАЙ-19	2850,00		30	1981	Q2	Май	01
13	30	SALES	CHI	7844	TURNER	SALE	7698	08-СЕН-19	1500,00	,00	30	1981	Q3	Сен	08
14	30	SALES	CHI	7900	JAMES	CLER	7698	03-ДЕК-19	950,00		30	1981	Q4	Дек	03

Лист 1

38. Добавление графика в рабочую книгу.



39. Добавление графика в рабочую книгу.

Oracle Discoverer Desktop - [Рабочая книга1]

Файл Правка Вид Лист Формат Инструменты Диаграмма Окно Справка

Tahoma 8 B I U

Для редактирования этого названия дважды щелкните мышкой здесь.

	Deptno	Dname	Loc	Empno	Ename	Job	Mgr	Hiredate	Sal SUM	Comm SUM	Deptno	Hiredate: Year	Hiredate: Quarter	Hiredate: Month	Hiredate: Day
1	10	ACCOUNTING	NEW	7782	CLARK	MAN	7839	09-ИЮН-19	2450,00		10	1981	Q2	Июн	09
2	10	ACCOUNTING	NEW	7789	KING	PRES		17-НОЯ-19	5000,00		10	1981	Q4	Ноя	17
3	10	ACCOUNTING	NEW	7934	MILLER	CLER	7782	23-ЯНВ-19	1300,00		10	1982	Q1	Янв	23
4	20	RESEARCH	DALL	7369	SMITH	CLER	7902	17-ДЕК-19	800,00		20	1980	Q4	Дек	17
5	20	RESEARCH	DALL	7566	JONES	MAN	7839	02-АПР-19	2975,00		20	1981	Q2	Апр	02
6	20	RESEARCH	DALL	7788	SCOTT	ANAL	7566	19-АПР-19	3000,00		20	1987	Q2	Апр	19
7	20	RESEARCH	DALL	7876	ADAMS	CLER	7788	23-МАЙ-19	1100,00		20	1987	Q2	Май	23
8	20	RESEARCH	DALL	7902	FORD	ANAL	7566	03-ДЕК-19	3000,00		20	1981	Q4	Дек	03
9	30	SALES	CHIC	7499	ALLEN	SALE	7698	20-ФЕВ-19	1600,00	300,00	30	1981	Q1	Фев	20
10	30	SALES	CHIC	7521	WARD	SALE	7698	22-ФЕВ-19	1250,00	500,00	30	1981	Q1	Фев	22
11	30	SALES	CHIC	7654	MARTIN	SALE	7698	28-СЕН-19	1250,00	1400,00	30	1981	Q3	Сен	28
12	30	SALES	CHIC	7698	BLAKE	MAN	7839	01-МАЙ-19	2850,00		30	1981	Q2	Май	01
13	30	SALES	CHIC	7844	TURNER	SALE	7698	08-СЕН-19	1500,00	,00	30	1981	Q3	Сен	08
14	30	SALES	CHIC	7900	JAMES	CLER	7698	03-ДЕК-19	950,00		30	1981	Q4	Дек	03

График

Лист 1

Для получения справки нажмите F1

40. Сохранение рабочей книги в базе данных.

Oracle Discoverer Desktop - [Рабочая книга1]

Файл Правка Вид Лист Формат Инструменты Диаграмма Окно Справка

Tahoma 8 B C U

Для редактирования этого названия дважды щелкните мышкой здесь.

	Deptno	Dname	Loc	Empno	Ename	Job	Mgr	Hiredate	Sal	SUM	Comm	SUM	Deptno	Hiredate: Year	Hiredate: Quarter	Hiredate: Month	Hiredate: Day
1	10	ACCOUNTS	NEW	7782	CLARK	MAN	7839	09-ИЮН-19	2450,00				10	1981	Q2	Июн	09
2	10	ACCOUNTS	NEW	7839	KING	PRES		17-НОЯ-19	5000,00				10	1981	Q4	Ноя	17
3	10	ACCOUNTS	NEW	7934	MILLER	CLER	7782	23-ЯНВ-19	1300,00				10	1982	Q1	Янв	23
4	20	RESEARCH	DAL	7369	SMITH	CLER	7902	17-ДЕК-19	800,00				20	1980	Q4	Дек	17
5	20	RESEARCH	DAL	7566	JONES	MAN	7839	02-АПР-19	2975,00				20	1981	Q2	Апр	02
6	20	RESEARCH	DAL	7788	SCOTT	ANA	7566	19-АПР-19	3000,00				20	1987	Q2	Апр	19
7	20	RESEARCH	DAL	7876	ADAMS	CLER	7788	23-МАЙ-19	1100,00				20	1987	Q2	Май	23
8	20	RESEARCH	DAL	7902	FORD	ANA	7566	03-ДЕК-19	3000,00				20	1981	Q4	Дек	03
9	30	SALES	CHI	7499	ALLEN	SALE	7698	20-ФЕВ-19	1600,00		300,00		30	1981	Q1	Фев	20
10	30	SALES	CHI	7521	WARD	SALE	7698	22-ФЕВ-19	1250,00								22
11	30	SALES	CHI	7654	MARTIN	SALE	7698	28-СЕН-19	1250,00								28
12	30	SALES	CHI	7698	BLAKE	MAN	7839	01-МАЙ-19	2850,00								01
13	30	SALES	CHI	7844	TURNER	SALE	7698	08-СЕН-19	1500,00								08
14	30	SALES	CHI	7900	JAMES	CLER	7698	03-ДЕК-19	950,00								03

Сохранение рабочей книги

Где сохранить эту рабочую книгу?

☐ Мой компьютер

☐ База данных

Чтобы сохранить раб.книгу в базе данных, щелкните Сохранить.

Сохранить... Отмена Справка

Лист 1

Для получения справки нажмите F1

41. Сохранение рабочей книги в базе данных.

Oracle Discoverer Desktop - [Рабочая книга1]

Файл Правка Вид Лист Формат Инструменты Диаграмма Окно Справка

Tahoma 8 B I U

Для редактирования этого названия дважды щелкните мышкой здесь.

	Deptno	Dname	Loc	Empno	Ename	Job	Mgr	Hiredate	Sal	SUM	Comm	SUM	Deptno	Hiredate: Year	Hiredate: Quarter	Hiredate: Month	Hiredate: Day
1	10	ACCOUNTS	NEW	7782	CLARK	MAN	7839	09-ИЮН-19	2450,00				10	1981	Q2	Июн	09
2	10	ACCOUNTS	NEW	7839	KING	PRES		17-НОЯ-19	5000,00				10	1981	Q4	Ноя	17
3	10	ACCOUNTS	NEW	7934	MILLER	CLER	7782	23-ЯНВ-19	1300,00				10	1982	Q1	Янв	23
4	20	RESEARCH	DAL	7369	SMITH	CLER	7902	17-ДЕК-19	800,00				20	1980	Q4	Дек	17
5	20	RESEARCH	DAL	7566	JONES	MAN	7839	02-АПР-19	2975,00				20	1981	Q2	Апр	02
6	20	RESEARCH	DAL	7788	SCOTT	ANAL	7566	19-АПР-19	3000,00				20	1987	Q2	Апр	19
7	20	RESEARCH	DAL	7876	ADAMS	CLER	7788	23-МАЙ-19	1100,00				20	1987	Q2	Май	23
8	20	RESEARCH	DAL	7902	FORD	ANAL	7566	03-ДЕК-19	3000,00				20	1987	Q2	Май	03
9	30	SALES	CHI	7499	ALLEN	SALE	7698	20-ФЕВ-19	1600,00				30	1981	Q1	Фев	20
10	30	SALES	CHI	7521	WARD	SALE	7698	22-ФЕВ-19	1250,00				30	1981	Q1	Фев	22
11	30	SALES	CHI	7654	MARTIN	SALE	7698	28-СЕН-19	1250,00				30	1981	Q3	Сен	28
12	30	SALES	CHI	7698	BLAKE	MAN	7839	01-МАЙ-19	2850,00				30	1981	Q2	Май	01
13	30	SALES	CHI	7844	TURNER	SALE	7698	08-СЕН-19	1500,00				30	1981	Q3	Сен	08
14	30	SALES	CHI	7900	JAMES	CLER	7698	03-ДЕК-19	950,00				30	1981	Q4	Дек	03

Сохранение рабочей книги в базе данных

Доступные рабочие книги:

Имя:
workbook1

Сохранить Отмена Справка

Лист 1

Для получения справки нажмите F1

42. Создание коннекции к Discoverer Plus.

Oracle Application Server
Discoverer Plus

Help

Connect to Discoverer Plus

To connect to OracleAS Discoverer, click the corresponding Connection in the table below. If the connection you are looking for isn't in the list, click Create Connection.

Create Connection

Details	Connection ▾	Description	Update	Delete
(No connections found.)				

Help

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About Discoverer Plus Version 9.0.4.43.18
Oracle Technology Network

Done Trusted sites

43. Создание коннекции к Discoverer Plus.

OracleAS Discoverer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste

Address http://scias.ru.oracle.com/discoverer/plus?&_plus=true&_rvp=add_con Go Links

Oracle Application Server

Discoverer Plus

[?](#)
Help

Create Connection: Connection Details

Enter a connection name that is easy to remember. Add a description for this connection, followed by the database account details. [Cancel](#) [Apply](#)

Connection Name and Description

Connection Name

Connection Description

Locale

Database Account Details

User Name

Password

Database

[Cancel](#) [Apply](#)

[Help](#)

Done Trusted sites

44. Создание коннекции к Discoverer Plus.

OracleAS Discoverer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Copy Paste

Address http://scias.ru.oracle.com/discoverer/plus?_plus=true&in=nwb&nls=en-us&plusp_locale=en-us Go Links

Oracle Application Server

Discoverer Plus

Help

Connect to Discoverer Plus

To connect to OracleAS Discoverer, click the corresponding Connection in the table below. If the connection you are looking for isn't in the list, click Create Connection.

Create Connection

Details	Connection ▾	Description	Update	Delete
Show	con1	con1		

Help

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[About Discoverer Plus Version 9.0.4.43.18](#)
[Oracle Technology Network](#)

Trusted sites

45. Логин в Discoverer Plus.

OracleAS Discoverer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print

Address http://scias.ru.oracle.com/discoverer/plus?&_plus=true&cn=us_a103&us=%7E275COTT%7E27&db=asdb10&lm=discoverer&eul=SCOTT&nsl=en-us&_plus=true&plusp_Locale=en-us Go Links

Oracle Application Server

Discoverer Plus

[?](#)
Help

You are connecting to OracleAS Discoverer

Connection Name **con1**

Language **English (United States)**

Password

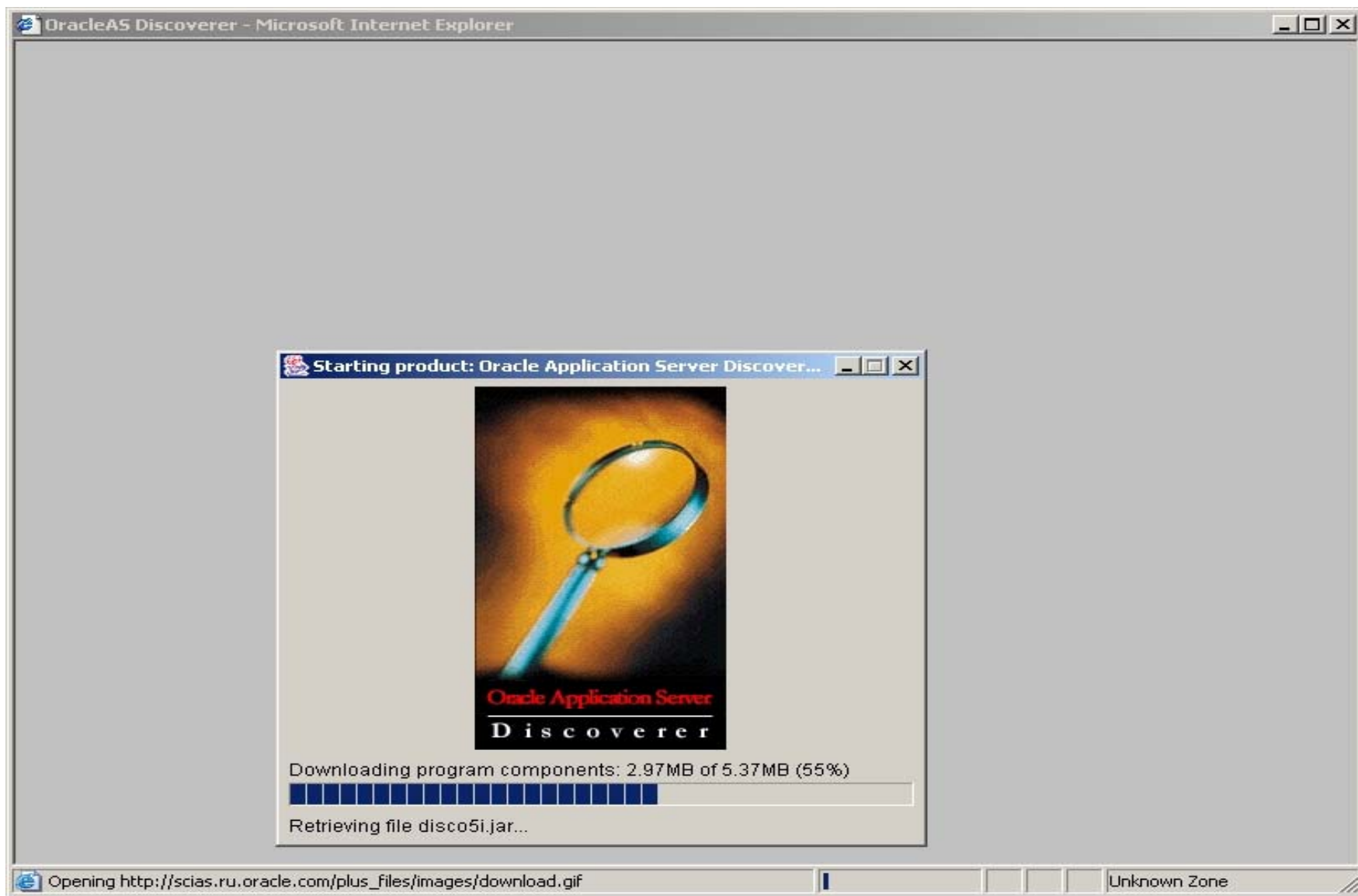
[Connect](#)

[Help](#)

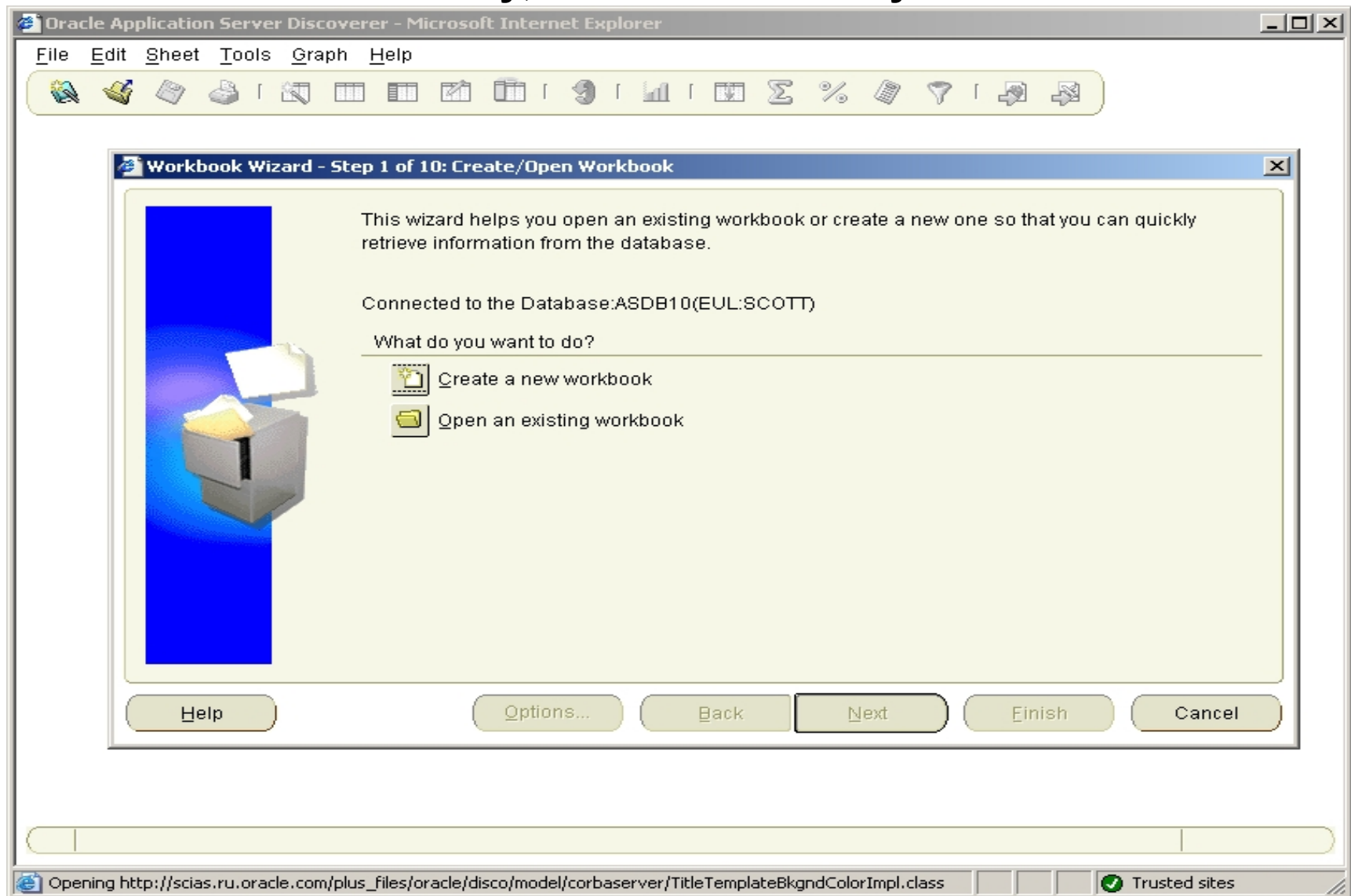
Copyright © 2000, 2004, Oracle. All rights reserved.
[About Discoverer Plus Version 9.0.4.43.18](#)
[Oracle Technology Network](#)

Done Trusted sites

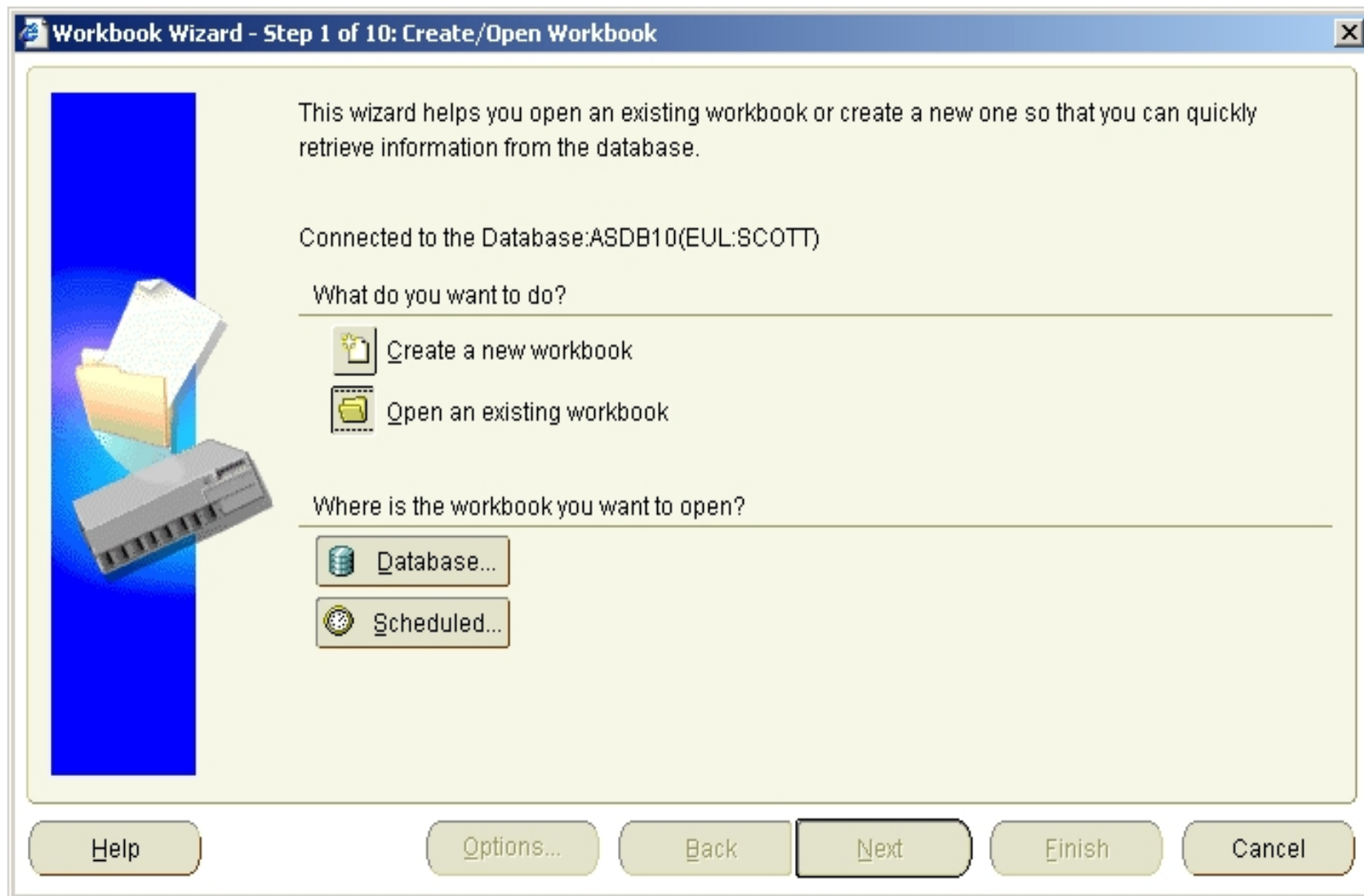
46. Загрузка программных компонентов Discoverer Plus на локальный хост.



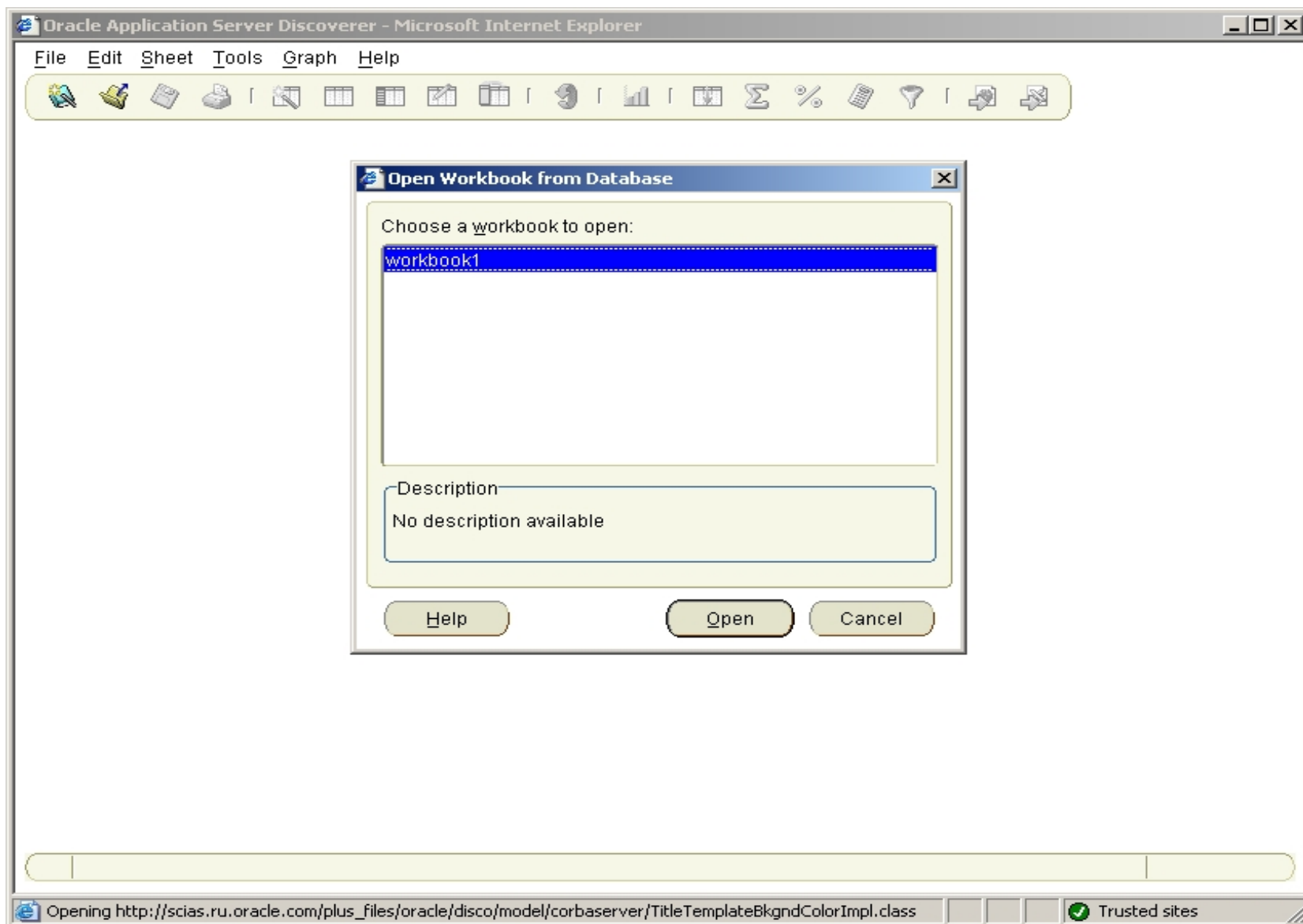
47. Запрос о том использовать ли готовую рабочую книгу, или создать новую.



48. Запрос о том использовать ли готовую рабочую книгу, или создать новую.



49. Выбор готовой рабочей книги из базы данных.



50. Выбор готовой рабочей книги из базы данных.

Oracle Application Server Discoverer - [workbook1] - Microsoft Internet Explorer

File Edit Sheet Tools Graph Help

Для редактирования этого названия дважды щелкните мышкой здесь.

	Deptno	Dname	Loc	Empno	Ename	Job	Mgr	Hiredate	Sal SUM	Comm SUM	Deptno	Hiredate: Year	Hiredate: Quarter	H
1	10	ACCOUNTING	NEW YORK	7782	CLARK	MANAGER	7839	09-JUN-1981	2450.00	NULL	10	1981	Q2	Jun
2	10	ACCOUNTING	NEW YORK	7839	KING	PRESIDENT	NULL	17-NOV-1981	5000.00	NULL	10	1981	Q4	Nov
3	10	ACCOUNTING	NEW YORK	7934	MILLER	CLERK	7782	23-JAN-1982	1300.00	NULL	10	1982	Q1	Jan
4	20	RESEARCH	DALLAS	7369	SMITH	CLERK	7902	17-DEC-1980	800.00	NULL	20	1980	Q4	Dec
5	20	RESEARCH	DALLAS	7566	JONES	MANAGER	7839	02-APR-1981	2975.00	NULL	20	1981	Q2	Apr
6	20	RESEARCH	DALLAS	7788	SCOTT	ANALYST	7566	19-APR-1987	3000.00	NULL	20	1987	Q2	Apr
7	20	RESEARCH	DALLAS	7876	ADAMS	CLERK	7788	23-MAY-1987	1100.00	NULL	20	1987	Q2	May
8	20	RESEARCH	DALLAS	7902	FORD	ANALYST	7566	03-DEC-1981	3000.00	NULL	20	1981	Q4	Dec
9	30	SALES	CHICAGO	7499	ALLEN	SALESMAN	7698	20-FEB-1981	1600.00	300.00	30	1981	Q1	Feb
10	30	SALES	CHICAGO	7521	WARD	SALESMAN	7698	22-FEB-1981	1250.00	500.00	30	1981	Q1	Feb
11	30	SALES	CHICAGO	7654	MARTIN	SALESMAN	7698	28-SEP-1981	1250.00	1400.00	30	1981	Q3	Sep
12	30	SALES	CHICAGO	7698	BLAKE	MANAGER	7839	01-MAY-1981	2850.00	NULL	30	1981	Q2	May
13	30	SALES	CHICAGO	7844	TURNER	SALESMAN	7698	08-SEP-1981	1500.00	.00	30	1981	Q3	Sep
14	30	SALES	CHICAGO	7900	JAMES	CLERK	7698	03-DEC-1981	950.00	NULL	30	1981	Q4	Dec

Page 1 of 1 25 Rows per Page

Лист 1

Opening http://scias.ru.oracle.com/plus_files/oracle/disco/image/drill.gif Trusted sites

51. Создание нового графика.

Oracle Application Server Discoverer - [workbook1] - Microsoft Internet Explorer

File Edit Sheet Tools **Graph** Help

New Graph...
Edit Graph...
Delete Graph
Display Graph ▶
Auto Layout
☒ Fit to Window
☒ Show Legend
☒ Show Toolbar
☒ Show Page Items

Для редактирования этого названия дважды щелкните мышкой здесь.

	Deptno	Dname	Job	Mgr	Hiredate	Sal SUM	Comm SUM	Deptno	Hiredate: Year	Hiredate: Quarter	Hiredate: Month	Hiredate: Day
1	10	ACCOUNTING	MANAGER	7839	09-JUN-1981	2450.00	NULL	10	1981	Q2	Jun	09
2	10	ACCOUNTING	PRESIDENT	NULL	17-NOV-1981	5000.00	NULL	10	1981	Q4	Nov	17
3	10	ACCOUNTING	CLERK	7782	23-JAN-1982	1300.00	NULL	10	1982	Q1	Jan	23
4	20	RESEARCH	CLERK	7902	17-DEC-1980	800.00	NULL	20	1980	Q4	Dec	17
5	20	RESEARCH	MANAGER	7839	02-APR-1981	2975.00	NULL	20	1981	Q2	Apr	02
6	20	RESEARCH	ANALYST	7566	19-APR-1987	3000.00	NULL	20	1987	Q2	Apr	19
7	20	RESEARCH	CLERK	7788	23-MAY-1987	1100.00	NULL	20	1987	Q2	May	23
8	20	RESEARCH	ANALYST	7566	03-DEC-1981	3000.00	NULL	20	1981	Q4	Dec	03
9	30	SALES	SALESMAN	7698	20-FEB-1981	1600.00	300.00	30	1981	Q1	Feb	20
10	30	SALES	SALESMAN	7698	22-FEB-1981	1250.00	500.00	30	1981	Q1	Feb	22
11	30	SALES	SALESMAN	7698	28-SEP-1981	1250.00	1400.00	30	1981	Q3	Sep	28
12	30	SALES	MANAGER	7839	01-MAY-1981	2850.00	NULL	30	1981	Q2	May	01
13	30	SALES	SALESMAN	7698	08-SEP-1981	1500.00	.00	30	1981	Q3	Sep	08
14	30	SALES	CLERK	7698	03-DEC-1981	950.00	NULL	30	1981	Q4	Dec	03

Page 1 of 1

25 Rows per Page

Лист 1

Opening http://scias.ru.oracle.com/plus_files/oracle/disco/image/drill.gif

Trusted sites

52. Создание нового графика.

Oracle Application Server Discoverer - [workbook1] - Microsoft Internet Explorer

File Edit Sheet Tools Graph Help

Graph Wizard - Step 1 of 6: Graph Type

What type of graph do you want?

Graph type:

- Bar
- Horizontal Bar
- Pie
- Line
- Area
- Combination
- Scatter/Bubble
- Stock
- Circular
- Pareto
- ThreeD

Graph subtype:

- Bar
- Dual-Y Bar
- Split Dual-Y Bar
- Percent
- Stacked Bar
- Dual-Y Stacked

☐ 3D effect

Description:
Each bar shows a value. Use to show trends or to compare values.

Help Back Next Finish Cancel

Page 1 of 1

Лист 1

Duplicates the current worksheet as a crosstab

Opening http://scias.ru.oracle.com/plus_files/oracle/ewt/util/LocaleUtils.class

Trusted sites

	Deptno	Dname	
1	10	ACCOUNTING	NE
2	10	ACCOUNTING	NE
3	10	ACCOUNTING	NE
4	20	RESEARCH	DA
5	20	RESEARCH	DA
6	20	RESEARCH	DA
7	20	RESEARCH	DA
8	20	RESEARCH	DA
9	30	SALES	CH
10	30	SALES	CH
11	30	SALES	CH
12	30	SALES	CH
13	30	SALES	CH
14	30	SALES	CH

53. Создание нового графика.

Oracle Application Server Discoverer - [workbook1] - Microsoft Internet Explorer

File Edit Sheet Tools Graph Help

Graph Wizard - Step 1 of 5: Graph Type

What type of graph do you want?

Graph type:

- Bar
- Horizontal Bar
- Pie
- Line
- Area
- Combination
- Scatter/Bubble
- Stock
- Circular
- Pareto
- ThreeD**

Graph subtype:

- 3-D Bar
- 3-D Cube
- 3-D Area**
- 3-D Ribbon
- 3-D Surface

☒ 3D effect

Description:
3-D area graph. Use to show trends or to compare values.

Help Back Next Finish Cancel

Page 1 of 1

Лист 1

Duplicates the current worksheet as a crosstab

Opening http://scias.ru.oracle.com/plus_files/oracle/ewt/util/LocaleUtils.class

Trusted sites

	Deptno	Dname	
1	10	ACCOUNTING	NE
2	10	ACCOUNTING	NE
3	10	ACCOUNTING	NE
4	20	RESEARCH	DA
5	20	RESEARCH	DA
6	20	RESEARCH	DA
7	20	RESEARCH	DA
8	20	RESEARCH	DA
9	30	SALES	CH
10	30	SALES	CH
11	30	SALES	CH
12	30	SALES	CH
13	30	SALES	CH
14	30	SALES	CH

54. Создание нового графика.

Graph Wizard - Step 2 of 5: Titles, Totals, and Series

Type text for your title, select totals, and select series.

☒ Show Title Insert ▾ Title Font...

&WorkbookName&Date&Time

What would you like to display in your graph?

☒ Data only

☐ Totals only

☐ Both data and totals

☒ Show null values as zero

Graph series by :

☒ Columns ☐ Rows Pie Chart Options...

X-Axis : Deptno , Dname , Loc , Empno , Ename , Job , Mgr , Hiredate , Deptno ,
Hiredate: Year , Hiredate: Quarter , Hiredate: Month , Hiredate: Day
Series : Sal SUM 1 , Comm SUM 1

Help Back Next Finish Cancel

55. Создание нового графика.

Oracle Application Server Discoverer - [workbook1] - Microsoft Internet Explorer

File Edit Sheet Tools Graph Help

Graph Wizard - Step 3 of 5: X-Axis

Select options for the X-Axis on your graph.

☐ Show X-Axis title Insert X-Axis Title Font...

Select options for line on the X-Axis.

Line thickness: Line color:

Select options for the labels displayed on the X-Axis.

☐ Show labels for all tick marks on the axis.

☒ Show labels for some tick marks on the axis.

☒ Automatically skip labels to fit.

☐ Start with tick mark: 1

Tick marks to skip between labels: 0

X-Axis Label Font...

Help Back Next Finish Cancel

Page 1 of 1

Лист 1

Opening http://scias.ru.oracle.com/plus_files/oracle/ewt/util/LocaleUtils.class Trusted sites

	Deptno	Dname
1	10	ACCOUNTING
2	10	ACCOUNTING
3	10	ACCOUNTING
4	20	RESEARCH
5	20	RESEARCH
6	20	RESEARCH
7	20	RESEARCH
8	20	RESEARCH
9	30	SALES
10	30	SALES
11	30	SALES
12	30	SALES
13	30	SALES
14	30	SALES

56. Создание нового графика.

Graph Wizard - Step 4 of 5: Y-Axis

Select options for the Y1-Axis on your graph.

☐ Show Y1-Axis title Insert ▼ Y1-Axis Title Font...

Select options for line on the Y1-Axis.

Line thickness: Line color: 

Set the scale you would like to use on this axis.

Minimum: ☒ Set automatically

Maximum: ☒ Set automatically

Increment: ☒ Set automatically

☐ Logarithmic scale Base:

Reference Lines... Y1-Axis Label Font...

Help Back Next Finish Cancel

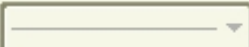
57. Создание нового графика.

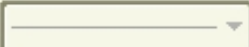
Graph Wizard - Step 5 of 5: Plot Area

Select options for the plot area of your graph.

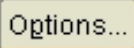
Background color: 

Border color: 

☐ Show horizontal grid lines:  Color: 

☒ Show vertical grid lines:  Color: 

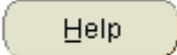
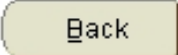
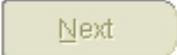
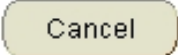
☐ Show data labels on areas. 

☒ Show data tips when mouse is over areas. 

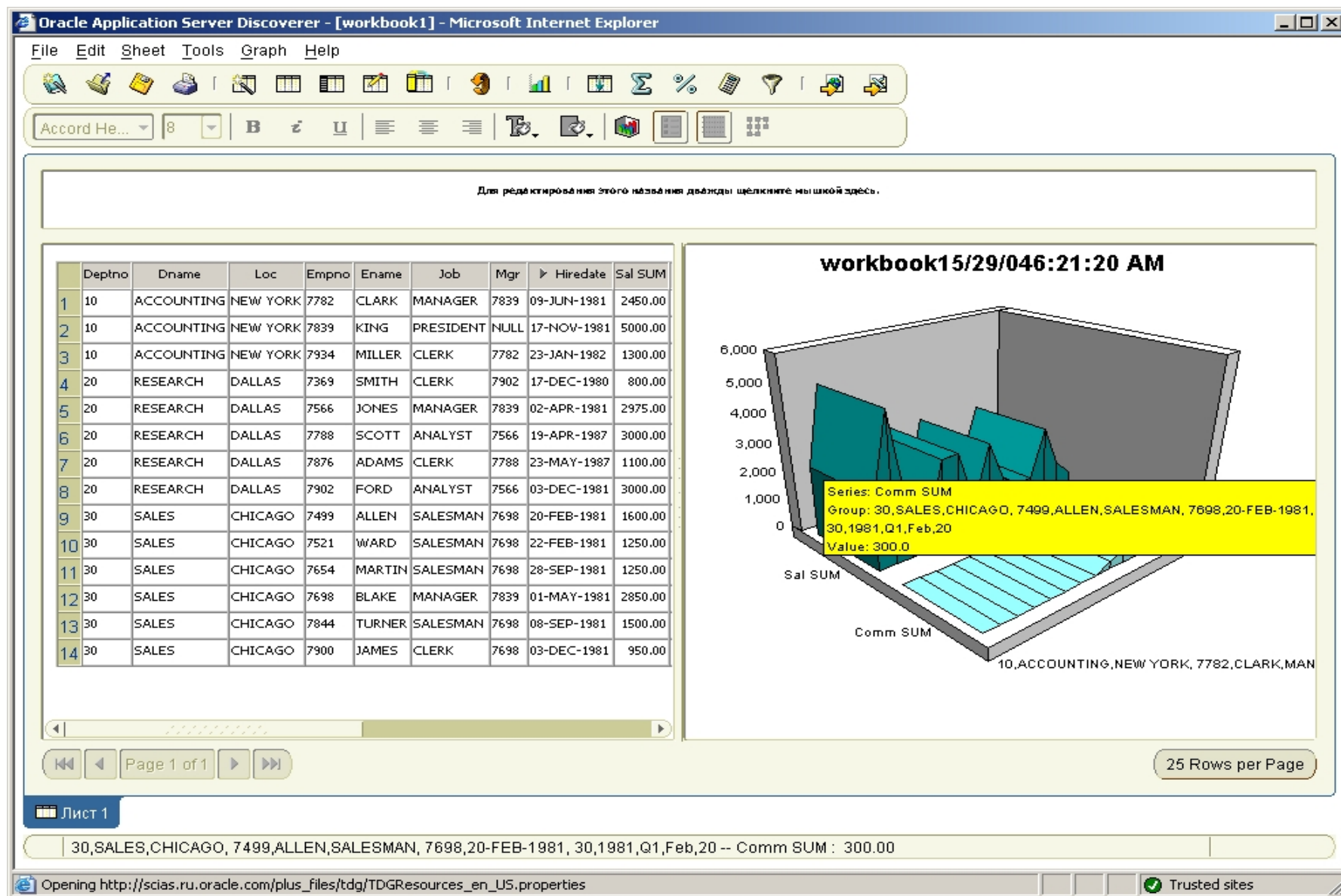
Select options for the series displayed in your graph.

Series	Color
All Series	Auto
Sal SUM	
Comm SUM	



58. Создание нового графика.



59. Сохранение измененной рабочей книги в базе данных.

Oracle Application Server Discoverer - [workbook1] - Microsoft Internet Explorer

File Edit Sheet Tools Graph Help

Accord He... 8 B i U

Available workbooks:
workbook1

New name:
workbook1

Help Save Cancel

	Deptno	Dname	Loc	Empno	Ename
1	10	ACCOUNTING	NEW YORK	7782	CLARK
2	10	ACCOUNTING	NEW YORK	7839	KING
3	10	ACCOUNTING	NEW YORK	7934	MILLER
4	20	RESEARCH	DALLAS	7369	SMITH
5	20	RESEARCH	DALLAS	7566	JONES
6	20	RESEARCH	DALLAS	7788	SCOTT
7	20	RESEARCH	DALLAS	7876	ADAMS
8	20	RESEARCH	DALLAS	7902	FORD
9	30	SALES	CHICAGO	7499	ALLEN
10	30	SALES	CHICAGO	7521	WARD
11	30	SALES	CHICAGO	7654	MARTIN
12	30	SALES	CHICAGO	7698	BLAKE
13	30	SALES	CHICAGO	7844	TURNER
14	30	SALES	CHICAGO	7900	JAMES

15/29/046:21:20 AM

Comm SUM

10,ACCOUNTING,NEW YORK, 7782,CLARK,MAN

Page 1 of 1

25 Rows per Page

Лист 1

Opening http://scias.ru.oracle.com/plus_files/oracle/disco/image/

Trusted sites

60. Сохранение измененной рабочей книги в базе данных.

The screenshot shows the Oracle Application Server Discoverer web interface. At the top, there's a menu bar with 'File', 'Edit', 'Sheet', 'Tools', 'Graph', and 'Help'. Below it is a toolbar with various icons for editing and visualization. The main content area is divided into two panes. The left pane displays a data table with columns: Deptno, Dname, Loc, Empno, and Ename. The right pane shows a 3D bar chart. A dialog box titled 'Confirm Overwrite Workbook' is open in the center, asking if the user wants to overwrite the existing workbook 'workbook1'. The dialog has 'Yes', 'No', and 'Cancel' buttons. The status bar at the bottom indicates 'Page 1 of 1' and '25 Rows per Page'.

	Deptno	Dname	Loc	Empno	Ename
1	10	ACCOUNTING	NEW YORK	7782	CLARK
2	10	ACCOUNTING	NEW YORK	7839	KING
3	10	ACCOUNTING	NEW YORK	7934	MILLER
4	20	RESEARCH	DALLAS	7369	SMITH
5	20	RESEARCH	DALLAS	7566	JONES
6	20	RESEARCH	DALLAS	7788	SCOTT
7	20	RESEARCH	DALLAS	7876	ADAMS
8	20	RESEARCH	DALLAS	7902	FORD
9	30	SALES	CHICAGO	7499	ALLEN
10	30	SALES	CHICAGO	7521	WARD
11	30	SALES	CHICAGO	7654	MARTIN
12	30	SALES	CHICAGO	7698	BLAKE
13	30	SALES	CHICAGO	7844	TURNER
14	30	SALES	CHICAGO	7900	JAMES

workbook1

Comm SUM

10,ACCOUNTING,NEW YORK, 7782,CLARK,MAN

Page 1 of 1

25 Rows per Page

Лист 1

Opening http://scias.ru.oracle.com/plus_files/oracle/disco/image/

Trusted sites

61. Выход из Discoverer Plus.

Oracle Application Server Discoverer - [workbook1] - Microsoft Internet Explorer

File Edit Sheet Tools Graph Help

New... Ctrl+N
Open... Ctrl+O
Close
Save Ctrl+S
Save As...
Schedule...
Print... Ctrl+P
Export...
Export to HTML
Export to Excel
Manage Workbooks
Exit

Для редактирования этого названия дважды щелкните мышкой здесь.

	Empno	Ename	Job	Mgr	Hiredate	Sal SUM
5	7782	CLARK	MANAGER	7839	09-JUN-1981	2450.00
6	7839	KING	PRESIDENT	NULL	17-NOV-1981	5000.00
7	7934	MILLER	CLERK	7782	23-JAN-1982	1300.00
8	7369	SMITH	CLERK	7902	17-DEC-1980	800.00
9	7566	JONES	MANAGER	7839	02-APR-1981	2975.00
10	7788	SCOTT	ANALYST	7566	19-APR-1987	3000.00
11	7876	ADAMS	CLERK	7788	23-MAY-1987	1100.00
12	7902	FORD	ANALYST	7566	03-DEC-1981	3000.00
13	7499	ALLEN	SALESMAN	7698	20-FEB-1981	1600.00
14	7521	WARD	SALESMAN	7698	22-FEB-1981	1250.00
15	7654	MARTIN	SALESMAN	7698	28-SEP-1981	1250.00
16	7698	BLAKE	MANAGER	7839	01-MAY-1981	2850.00
17	7844	TURNER	SALESMAN	7698	08-SEP-1981	1500.00
18	7900	JAMES	CLERK	7698	03-DEC-1981	950.00

workbook15/29/046:21:20 AM

Sal SUM

Comm SUM

10, ACCOUNTING, NEW YORK, 7782, CLARK, MAN

Page 1 of 1

25 Rows per Page

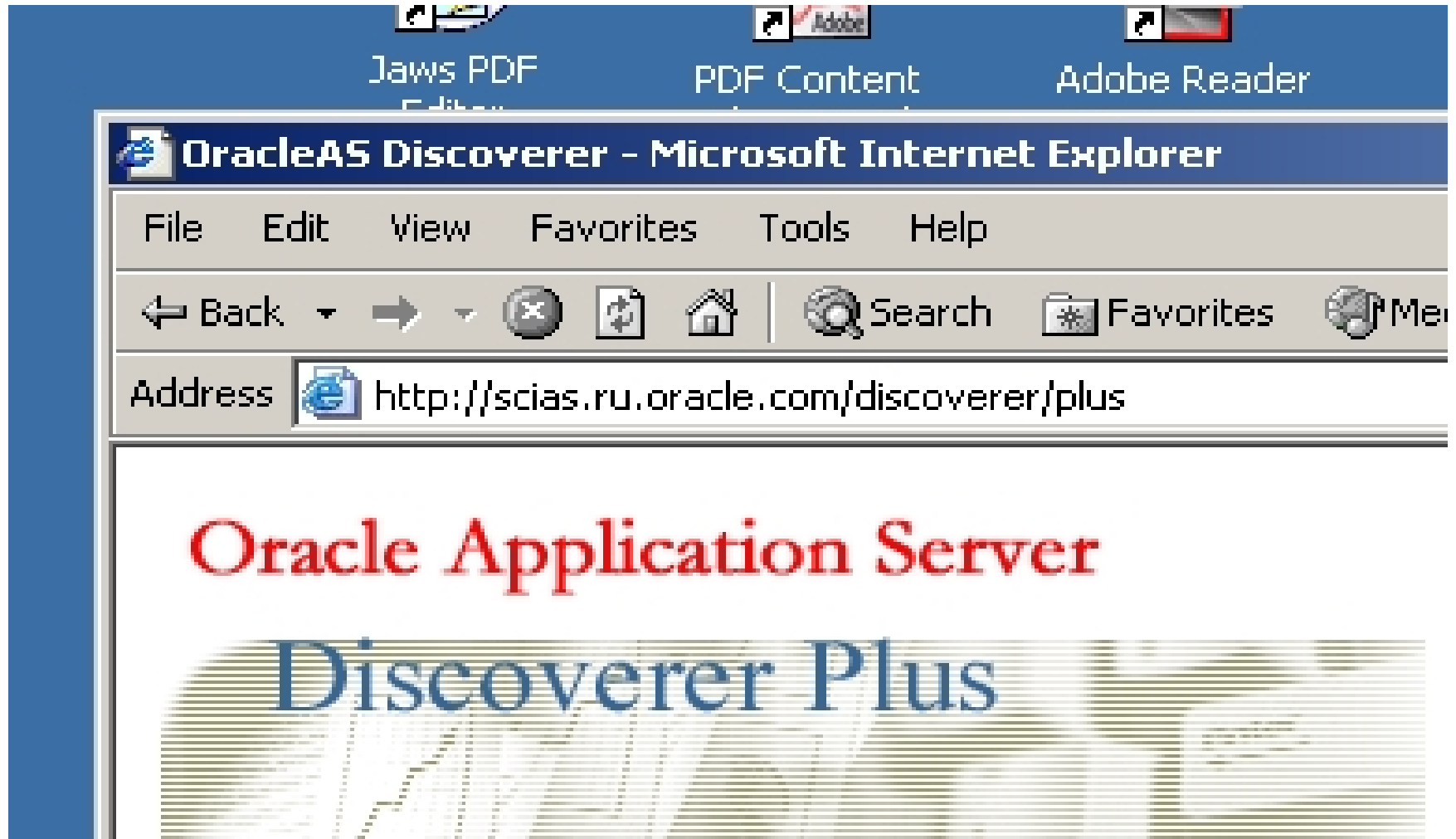
Лист 1

Exit

Opening http://scias.ru.oracle.com/plus_files/oracle/disco/image/

Trusted sites

62. URL для вызова Discoverer Plus



63. URL для вызова Discoverer Viewer



64. Коннекция к Discoverer Viewer

The screenshot shows a Microsoft Internet Explorer window titled "OracleAS Discoverer - Microsoft Internet Explorer". The address bar displays "http://scias.ru.oracle.com/discoverer/viewer". The page content includes the "Oracle Application Server Discoverer Viewer" header, a "Help" icon, and a "Connect to Discoverer Viewer" section. Below this section is a table with one connection named "con1". A "Create Connection" button is located to the right of the table. At the bottom of the page, there is a "Help" link and copyright information for Oracle, dated 2000 and 2004.

Oracle Application Server
Discoverer Viewer

Help

Connect to Discoverer Viewer

To connect to OracleAS Discoverer, click the corresponding Connection in the table below. If the connection you are looking for isn't in the list, click Create Connection.

Create Connection

Details	Connection	Description	Update	Delete
Show	con1	con1		

Help

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About Discoverer Viewer Version 9.0.4.43.18
Oracle Technology Network

Trusted sites

65. Коннекция к Discoverer Viewer

OracleAS Discoverer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste Address Go Links

Address [/scias.ru.oracle.com/discoverer/viewer?&cn=us_a103&us=%7E27SCOTT%7E27&db=asdb108&lm=discoverer&eul=SCOTT&nls=en-us](http://scias.ru.oracle.com/discoverer/viewer?&cn=us_a103&us=%7E27SCOTT%7E27&db=asdb108&lm=discoverer&eul=SCOTT&nls=en-us)

Oracle Application Server

Discoverer Viewer

Help

You are connecting to OracleAS Discoverer

Connection Name **con1**

Language English (United States)

Password

Connect

Help

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About Discoverer Viewer Version 9.0.4.43.18
Oracle Technology Network

Done Trusted sites

66. Выбор рабочей книги

OracleAS Discoverer - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print View Source

Address .ru.oracle.com/discoverer/viewer?cn=us_a103&db=asdb10&eul=SCOTT&lm=discoverer&nsl=en-us&us=~275SCOTT~27&x=30&y=13 Go Links

Oracle Application Server

Discoverer Viewer

Exit Preferences Help

[Connections](#) > Workbooks

List of Workbooks

Search

Type in a search string to find a specific workbook or result set. Use the drop-down menu to choose between Database and Scheduled Workbooks.

Search Database Workbooks Go

Results: 1 workbooks

Workbook	Description
workbook1	

Done Trusted sites

67. Выборка свежей информации для рабочей книги

OracleAS Discoverer : Executing Query - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Reload Home Search Favorites Media Print Copy Paste Address http://scias.ru.oracle.com/discoverer/viewer?&cn=us_a103&us=%7E275COTT%7E27&db=asdb10&lm=discoverer&eul=5COTT&nls=en-us&wbk=WORKBOOK1 Go Links

Oracle Application Server
Discoverer Viewer

workbook1 - Лист 1

Query Progress (00:00:05)

- ✓ Predicting Run Time (N/A)
- ✓ Running Query
- ✓ Fetching Data (14 rows)
- ✓ Sorting Data
- ⌚ Building Sheet
Complete

If this page doesn't update automatically, [click here](#).

[Help](#)

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[About Discoverer Viewer Version 9.0.4.43.18](#)
[Oracle Technology Network](#)

Building Sheet Trusted sites

68. Отображение свежей информации из рабочей книги

OracleAS Discoverer : workbook1 -> Лист 1 (SCOTT @ asdb10) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Print Copy Paste

Address http://scias.ru.oracle.com/discoverer/viewer?cn=us_a103&db=asdb10&eul=SCOTT&m=discoverer&nls=en-us&us=~275COTT~27&wbk=WORKBOOK1 Go Links

Oracle Application Server

Discoverer Viewer

Exit Preferences Help

▼ Worksheets
Лист 1

Connections > Workbooks > workbook1 - Лист 1

workbook1 - Лист 1

Rerun Query Presentation Options Export Printable Page

▼ Data

Table Layout Sort

Для редактирования этого названия дважды щелкните мышкой здесь.

	Deptno	Dname	Loc	Empno	Ename	Job	Mgr	Hiredate	Sal SUM	Comm SUM	Deptno	Hiredate: Year	Hiredate: Quarter	Hiredate: Month
1	10	ACCOUNTING	NEW YORK	7782	CLARK	MANAGER	7839	09-JUN-1981	2450.00	NULL	10	1981	Q2	Jun
2	10	ACCOUNTING	NEW YORK	7839	KING	PRESIDENT	NULL	17-NOV-1981	5000.00	NULL	10	1981	Q4	Nov
3	10	ACCOUNTING	NEW YORK	7934	MILLER	CLERK	7782	23-JAN-1982	1300.00	NULL	10	1982	Q1	Jan
4	20	RESEARCH	DALLAS	7369	SMITH	CLERK	7902	17-DEC-1980	800.00	NULL	20	1980	Q4	Dec
5	20	RESEARCH	DALLAS	7566	JONES	MANAGER	7839	02-APR-1981	2975.00	NULL	20	1981	Q2	Apr
6	20	RESEARCH	DALLAS	7788	SCOTT	ANALYST	7566	19-APR-1987	3000.00	NULL	20	1987	Q2	Apr
7	20	RESEARCH	DALLAS	7876	ADAMS	CLERK	7788	23-MAY-1987	1100.00	NULL	20	1987	Q2	May
8	20	RESEARCH	DALLAS	7902	FORD	ANALYST	7566	03-DEC-1981	3000.00	NULL	20	1981	Q4	Dec
9	30	SALES	CHICAGO	7499	ALLEN	SALESMAN	7698	20-FEB-1981	1600.00	300.00	30	1981	Q1	Feb
10	30	SALES	CHICAGO	7521	WARD	SALESMAN	7698	22-FEB-1981	1250.00	500.00	30	1981	Q1	Feb
11	30	SALES	CHICAGO	7654	MARTIN	SALESMAN	7698	28-SEP-1981	1250.00	1400.00	30	1981	Q3	Sep
12	30	SALES	CHICAGO	7698	BLAKE	MANAGER	7839	01-MAY-1981	2850.00	NULL	30	1981	Q2	May

Done Trusted sites

69. Отображение свежей информации из рабочей книги

Rerun Query Presentation Options Export Printable Page

▼ Data

Table Layout Sort

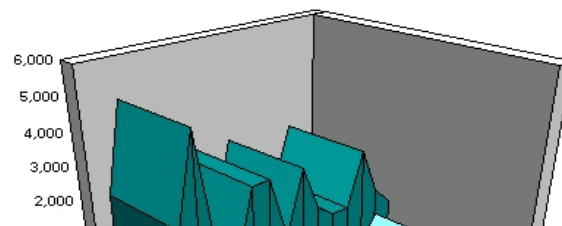
Для редактирования этого названия дважды щелкните мышкой здесь.

	Deptno	Dname	Loc	Empno	Ename	Job	Mgr	Hiredate	Sal SUM	Comm SUM	Deptno	Hiredate: Year	Hiredate: Quarter	Hiredate:
1	10	ACCOUNTING	NEW YORK	7782	CLARK	MANAGER	7839	09-JUN-1981	2450.00	NULL	10	1981	Q2	Jun
2	10	ACCOUNTING	NEW YORK	7839	KING	PRESIDENT	NULL	17-NOV-1981	5000.00	NULL	10	1981	Q4	Nov
3	10	ACCOUNTING	NEW YORK	7934	MILLER	CLERK	7782	23-JAN-1982	1300.00	NULL	10	1982	Q1	Jan
4	20	RESEARCH	DALLAS	7369	SMITH	CLERK	7902	17-DEC-1980	800.00	NULL	20	1980	Q4	Dec
5	20	RESEARCH	DALLAS	7566	JONES	MANAGER	7839	02-APR-1981	2975.00	NULL	20	1981	Q2	Apr
6	20	RESEARCH	DALLAS	7788	SCOTT	ANALYST	7566	19-APR-1987	3000.00	NULL	20	1987	Q2	Apr
7	20	RESEARCH	DALLAS	7876	ADAMS	CLERK	7788	23-MAY-1987	1100.00	NULL	20	1987	Q2	May
8	20	RESEARCH	DALLAS	7902	FORD	ANALYST	7566	03-DEC-1981	3000.00	NULL	20	1981	Q4	Dec
9	30	SALES	CHICAGO	7499	ALLEN	SALESMAN	7698	20-FEB-1981	1600.00	300.00	30	1981	Q1	Feb
10	30	SALES	CHICAGO	7521	WARD	SALESMAN	7698	22-FEB-1981	1250.00	500.00	30	1981	Q1	Feb
11	30	SALES	CHICAGO	7654	MARTIN	SALESMAN	7698	28-SEP-1981	1250.00	1400.00	30	1981	Q3	Sep
12	30	SALES	CHICAGO	7698	BLAKE	MANAGER	7839	01-MAY-1981	2850.00	NULL	30	1981	Q2	May
13	30	SALES	CHICAGO	7844	TURNER	SALESMAN	7698	08-SEP-1981	1500.00	.00	30	1981	Q3	Sep
14	30	SALES	CHICAGO	7900	JAMES	CLERK	7698	03-DEC-1981	950.00	NULL	30	1981	Q4	Dec

▼ Chart

Chart Size 463 Resize Fit To Window Default Size

workbook15/29/046:26:57 AM



70. Отображение свежей информации из рабочей книги

OracleAS Discoverer : workbook1 -> Лист 1 (SCOTT @ asdb10) - Microsoft Internet Explorer

File Edit View Favorites Tools Help

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Address http://scias.ru.oracle.com/discoverer/viewer?cn=us_a103&db=asdb10&eul=SCOTT&lm=discoverer&nls=en-us&us=~275SCOTT~278wbk=WORKBOOK1

Oracle Application Server
Discoverer Viewer

Exit Preferences Help

▼ Worksheets
Лист 1

Connections > Workbooks > workbook1 - Лист 1

workbook1 - Лист 1

Rerun Query Presentation Options Export Printable Page

▼ Data

Table Layout Sort

Для редактирования этого названия дважды щелкните мышкой здесь.

	Deptno	Dname	Loc	Empno	Ename	Job	Mgr	Hiredate	Sal SUM	Comm SUM	Deptno	Hiredate: Year	Hiredate: Quarter	Hiredate: Month
1	10	ACCOUNTING	NEW YORK	7782	CLARK	MANAGER	7839	09-JUN-1981	2450.00	NULL	10	1981	Q2	Jun
2	10	ACCOUNTING	NEW YORK	7839	KING	PRESIDENT	NULL	17-NOV-1981	5000.00	NULL	10	1981	Q4	Nov
3	10	ACCOUNTING	NEW YORK	7934	MILLER	CLERK	7782	23-JAN-1982	1300.00	NULL	10	1982	Q1	Jan
4	20	RESEARCH	DALLAS	7369	SMITH	CLERK	7902	17-DEC-1980	800.00	NULL	20	1980	Q4	Dec
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6	20	RESEARCH	DALLAS	7788	SCOTT	ANALYST	7566	19-APR-1987	3000.00	NULL	20	1987	Q2	Apr
7	20	RESEARCH	DALLAS	7876	ADAMS	CLERK	7788	23-MAY-1987	1100.00	NULL	20	1987	Q2	May
8	20	RESEARCH	DALLAS	7902	FORD	ANALYST	7566	03-DEC-1981	3000.00	NULL	20	1981	Q4	Dec
9	30	SALES	CHICAGO	7499	ALLEN	SALESMAN	7698	20-FEB-1981	1600.00	300.00	30	1981	Q1	Feb
10	30	SALES	CHICAGO	7521	WARD	SALESMAN	7698	22-FEB-1981	1250.00	500.00	30	1981	Q1	Feb
11	30	SALES	CHICAGO	7654	MARTIN	SALESMAN	7698	28-SEP-1981	1250.00	1400.00	30	1981	Q3	Sep
12	30	SALES	CHICAGO	7698	BLAKE	MANAGER	7839	01-MAY-1981	2850.00	NULL	30	1981	Q2	May

http://scias.ru.oracle.com/discoverer/viewer?_act=Exit

Trusted sites

Информация для контактов по техническим вопросам:

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