



# ADO technology

Subject

«Fundamentals of Information System»

10 lecture

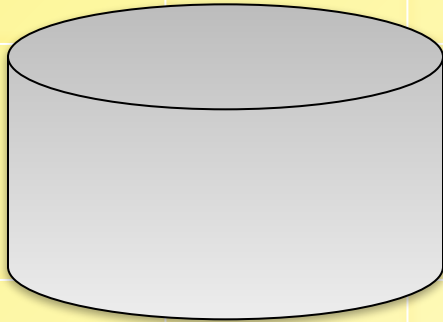
# ADO

- ActiveX Data Object – data access technology, developed by Microsoft.
- (ActiveX-objects for data access).

## • **Components:**

- **ADOConnection (inc. dbGo)**
- **ADOTable (inc. dbGo)**
- **ADOQuery (inc. dbGo)**
- **DataSource (inc. Data Access)**
- **DBEdit (inc. DataControl)**
- **DBNavigator**
- **DBGrid**

# Database model symbols (1)

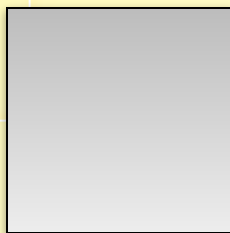


BASE.mdb

- Database

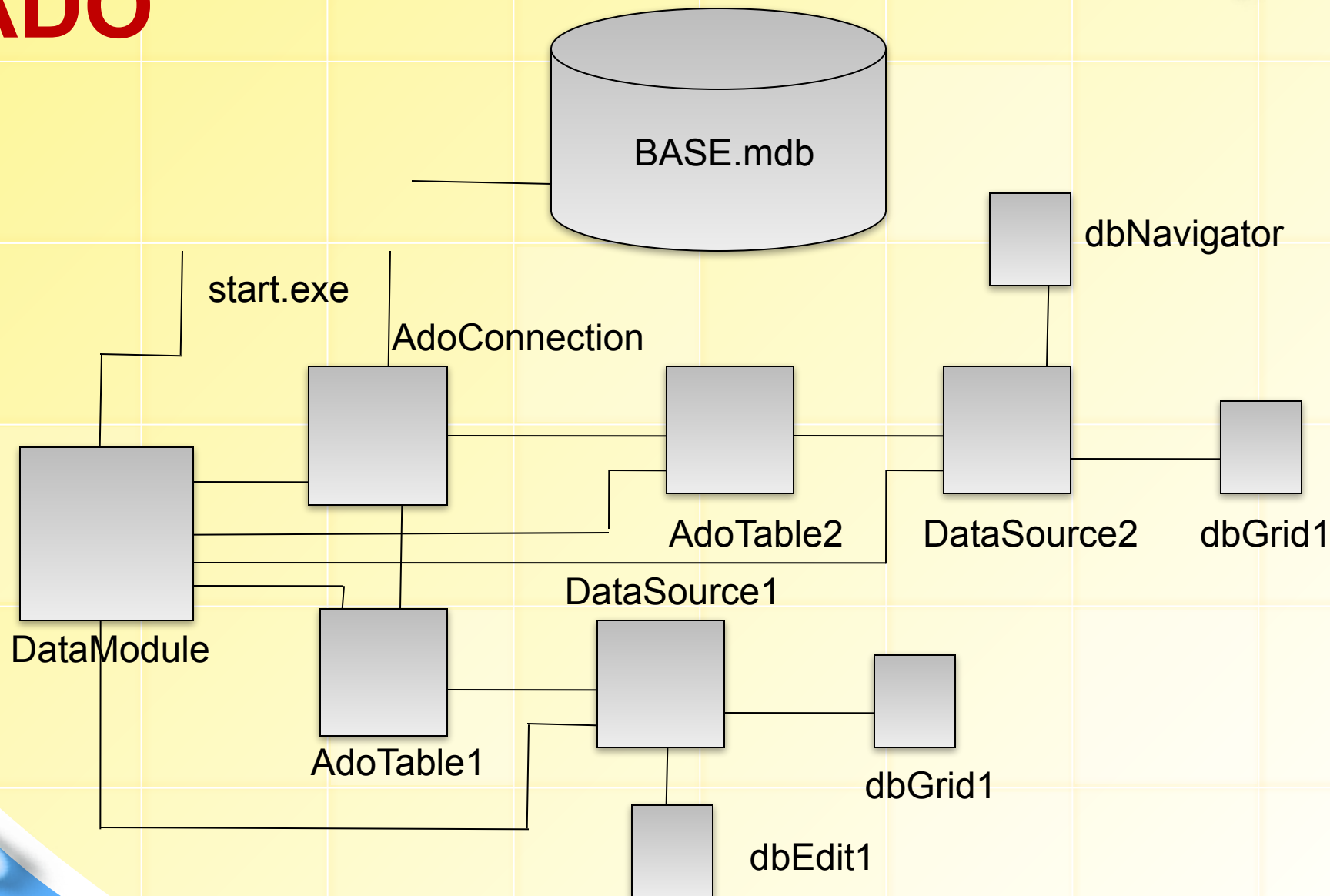
- Application

start.exe



- Module  
(component)

# Database model based on ADO



# Components attributes

- ADOConnection:

- **Connection String** – path to database

(Connection String -> Build-> MicrosoftJet 4.0.  
OLE DB Provider -> Show path to database)

**Path to database is provided relatively to  
current root directory!**

**Current root directory** – is (path to folder,  
where executed file – exe located, i.e  
application)

# ADOConnection:

- **Login Prompt** – password to database (false - disconnect)
- **Connected** – database connection (true - connect)

# ADOTable – database table

## ADOTable attributes:

- **Connection** – connection to database due to component ADOConnection
- **TableName** – table name
- **Active** – table connection activation (true – active, false – not active)



# **DataSource – table resource**

## **DataSource attributes:**

- **DataSet** – table resource connection  
(DataSet = AdoTable1)

# **DBGrid – table**

## **DBGrid attributes:**

- **DataSource** – table resource to visual component connection  
(DataSource=DataSource1)

# Google

Google began in March 1998 as a research project by Larry Page and Sergey Brin, Ph.D. students at Stanford University. The domain google.com was registered on September 15, 1997.

# PageRank

It is given by

$$PR(A) = (1-d) + d (PR(T_1)/C(T_1) + \dots + PR(T_n)/C(T_n))$$

where

$PR(A)$  is the PageRank of page A,  $PR(T_i)$  is the PageRank of pages  $T_i$  which link to page A,  $C(T_i)$  is the number of outbound links on page  $T_i$  and  $d$  is a damping factor which can be set between 0 and 1.

**Thank you for attention!**

