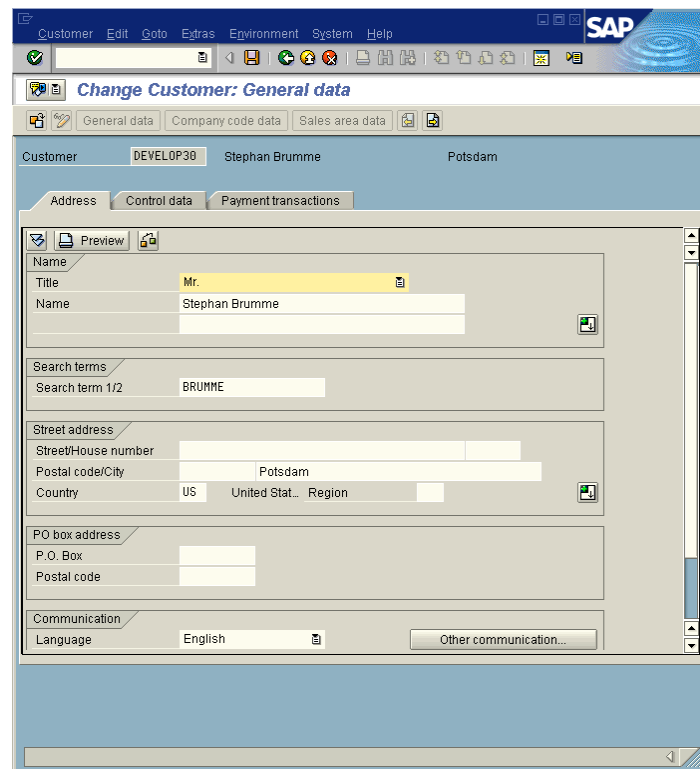


Question 1

a) You have first to define yourself as a customer in the system. You can find the customer management (Accounts Receivable or Debitoren) in the Financial Accounting, under Accounting. You have to Create a Master Record there. As customer, you should use your SAP login (that is developxx, where xx should be replaced by the number of your account). Use General Customer for the class of this particular customer.

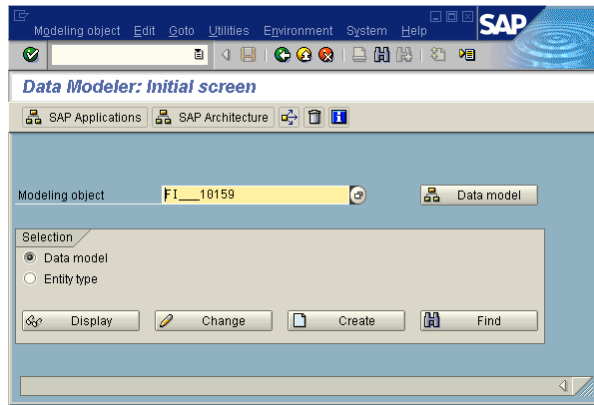
In order to get an idea of the complexity of the system, you should browse along the deeply nested menus of the three application areas. By using the button "Exit" you go always one level up until finally reaching the main page.

This problem (and most of the following ones) was solved by using the provided SAP R/3 system. To give some kind of a proof of my work I include screenshots that show the main tasks' results.



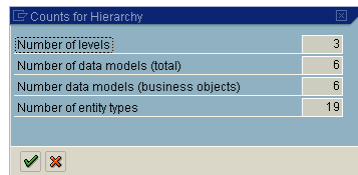
b) For your banking application, you need to re-use the customer data that are already maintained by your SAP system. You therefore first want to take a look how this customer data is modeled and managed. A set of administrative tools are available for this purpose.

1) Find the data model "Business Partner" FI 10159 in the system (this data model has three (!) underscores in its name). You can display a data model with a tool called Data Modeler.



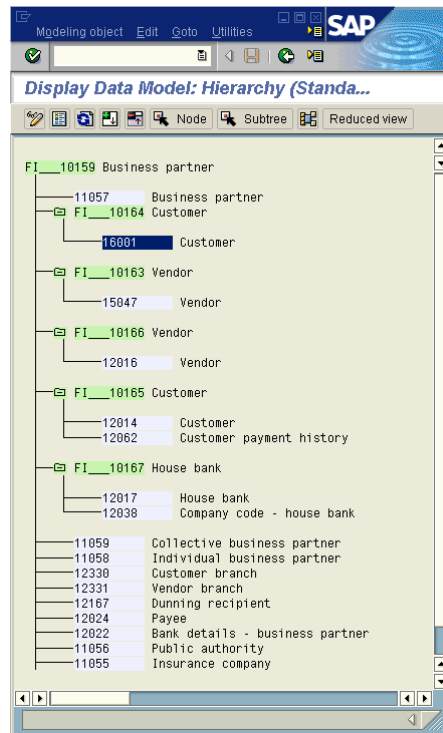
II) How many entity types are in this data model (hint: you can choose the graphical display of the data model to get an overview) ?

The data model comprises 19 entities (last row of the shown screenshot).



III) How many customer entities can be found in this data model ? What are their IDs ?

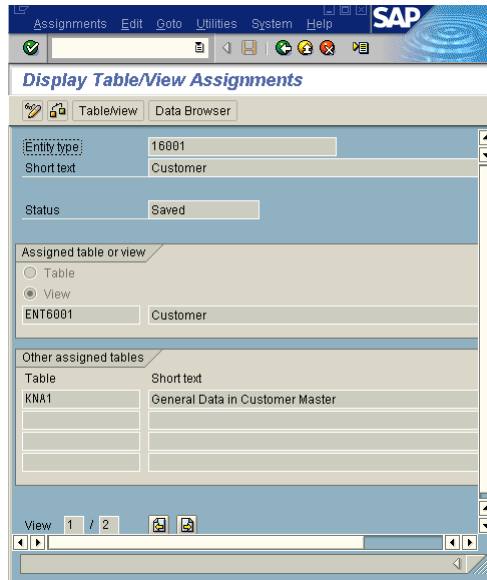
I found two customer entities, their IDs are 12014 (screenshot's center) and 16001 (upper part, marked blue).



c) Implementation of Entity Types

I) Which schema element /table, view, etc.) is assigned to the entity type *customer* (here, the customer entity with the highest ID should be used). This information is available in the Data Dictionary which you can directly reach from the Data Modeler.

It's ENT6001.



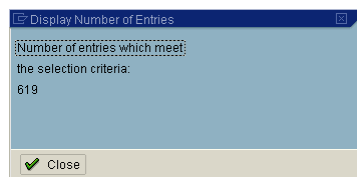
II) To which tables is the entity type *customer* matched to ?

(answer missing)

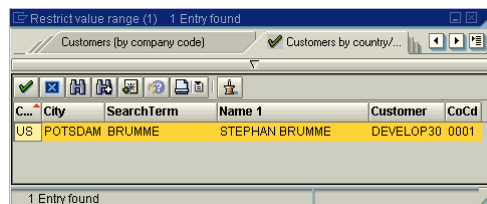
d) Contents of Table KNA1

I) How many tuples does the table KNA1 contain? You can display the contents by using a tool called Data Browser.

After processing the table's tuples, SAP R/3 returns 619 entries.



II) Try to find the entry for customer *develop30* you should have created a couple of minutes before.



Question 2

As you might have noticed, it is sometimes quite complex to navigate to the deeply nested menu structure.

However, by defining favorites, you have the possibility to create user-defined bookmarks which allow fast access to your favorite transactions (these are the entry points for dialogue windows).

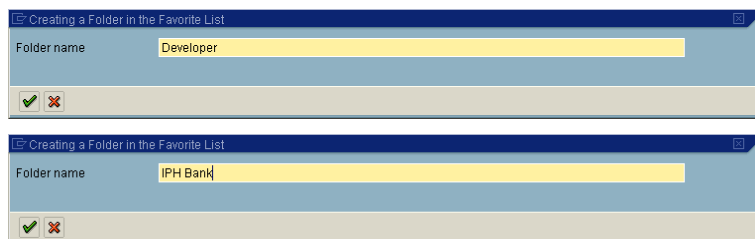
Create two new folders in the favorites: **Development** and **IPH Bank**.

Fill these folders with entries (**Insert Transaction**). In **Development**, you should insert the **Data Dictionary** and the **Data Modeler**. The transaction codes can be displayed, when you are in a transaction, via **Transaction in System ! Status**

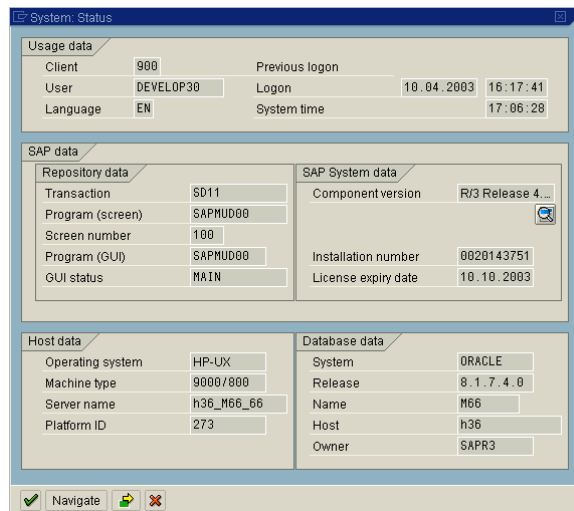
For the **IPH Bank**, you should first add **Create Customer** you have already used before and **Change Customer**. This list will be extended by functionality you add to the system in the following exercises.

A few screenshots outline the steps I took to fulfill the requested operations.

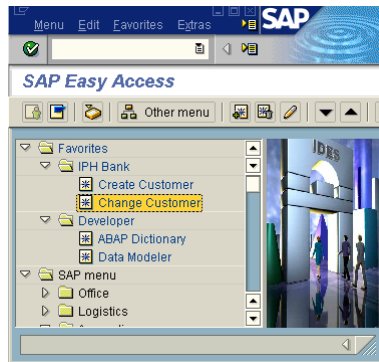
First, I created the folders:



Next, the transaction number SD11 was found in the Status dialog. To be more precisely, the field Transaction delivered the magic code.



It is more convenient to set up the remaining favorites via drag-n-drop. Finally, my desktop looked as follows:



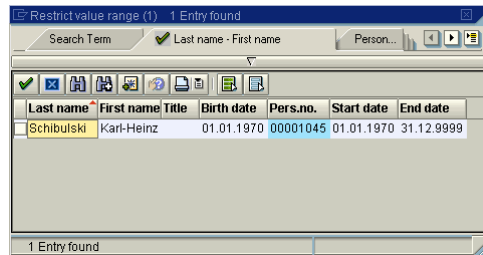
Question 3

In what follows, you will take a deeper look at some functionality and you should get an idea which business area manages which kind of information.

a) *Human Resources* - In your company, there is a colleague called Karl-Heinz Schibulski. Go to the Personal File (Personalakte) of Mr. Schibulski and try to find answers to the following questions

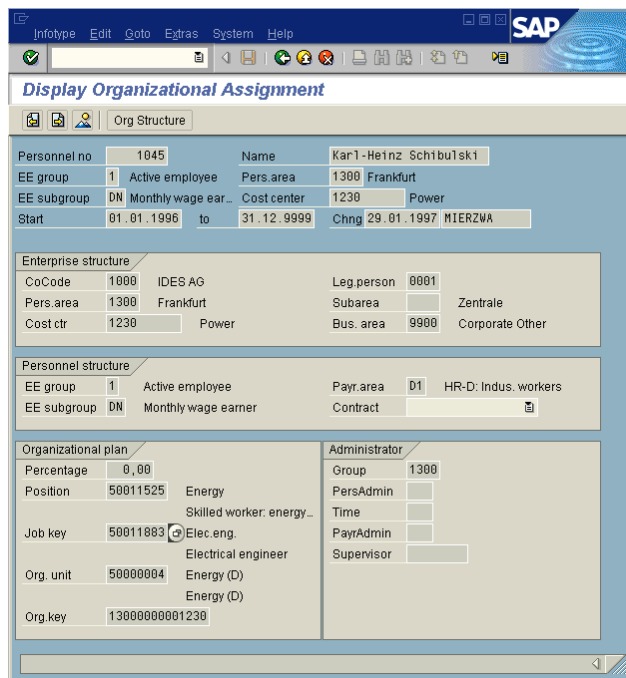
I) What is his birth date ?

He is lucky enough to be born on January 1st, 1970.



II) When did he join your company ?

The company hired him on his 26th birthday (January 1st, 1996).



III) Where is his enterprise location ?

Frankfurt

The screenshot shows the SAP 'Display Personal Data' screen for personnel number 1045. The data is organized into several sections:

- Header:** Personnel no. 1045
- Employee Data:** EE group 1 (Active employee), Pers. area 1300 (Frankfurt), EE subgroup DN (Monthly wage ear...), Cost center 1230 (Power), Start 01.01.1970, To 31.12.9999, Chng 12.12.1996 MIERZWA
- Name:** Form of addr Mr., Last name Schibulski, Title, First name Karl-Heinz, Initials, Name prefix, Other title, Formatting Karl-Heinz Schibulski, Spec.format 00
- Birth data:** Name at Birth, Name affix, Birthdate 01.01.1970, Title, Birthplace, Comm. lang. German, Cty o. birth, Nationality German, Other nat.
- Marital status/religion:** Mar. status Single, Since, Religion, No. child. 0

IV) What is his Job Key and Job Description ?

His Job Key is 50011883 which is the code representing an Electrical engineer.

The screenshot shows the SAP 'Display Organizational Assignment' screen for personnel number 1045. The data is organized into several sections:

- Header:** Personnel no. 1045, Name Karl-Heinz Schibulski
- Employee Data:** EE group 1 (Active employee), Pers. area 1300 (Frankfurt), EE subgroup DN (Monthly wage ear...), Cost center 1230 (Power), Start 01.01.1996, to 31.12.9999, Chng 29.01.1997 MIERZWA
- Enterprise structure:** CoCode 1000 (IDES AG), Leg. person 0001, Pers. area 1300 (Frankfurt), Subarea (Zentrale), Cost ctr 1230 (Power), Bus. area 9900 (Corporate Other)
- Personnel structure:** EE group 1 (Active employee), Payr. area D1 (HR-D: Indus. workers), EE subgroup DN (Monthly wage earner), Contract
- Organizational plan:** Percentage 0,00, Position 50011525 (Energy, Skilled worker: energy...), Job key 50011883 (Elec. eng., Electrical engineer), Org. unit 50000004 (Energy (D), Energy (D)), Org. key 13000000001230
- Administrator:** Group 1300, PersAdmin, Time, PayrAdmin, Supervisor

V) What is his marital status ?

He is still a single.

The screenshot shows the SAP 'Display Personal Data' interface for employee 1045. The data is organized into several sections:

- Personnel no.:** 1045
- EE group:** 1 Active employee, **Pers.area:** 1300 Frankfurt
- EE subgroup:** DN Monthly wage ear..., **Cost center:** 1230 Power
- Start:** 01.01.1970, **To:** 31.12.9999, **Chng:** 12.12.1996 MIERZWA
- Name:**
 - Form of addr: Mr.
 - Last name: Schibulski, Title: [empty]
 - First name: Karl-Heinz, Initials: [empty]
 - Name prefix: [empty], Other title: [empty]
 - Formatting: Karl-Heinz Schibulski, Spec.format: 00
- Birth data:**
 - Name at Birth: [empty]
 - Name affix: [empty], Title: [empty]
 - Birthdate: 01.01.1970, Birthplace: [empty]
 - Comm.lang.: German, City o.birth: [empty]
 - Nationality: German, Other nat.: [empty]
- Marital status/religion:**
 - Mar.status: Single, Since: [empty], Religion: [empty]
 - No. child.: 0

VI) Where does Mr. Schibulski live? How far is his apartment from the office ?

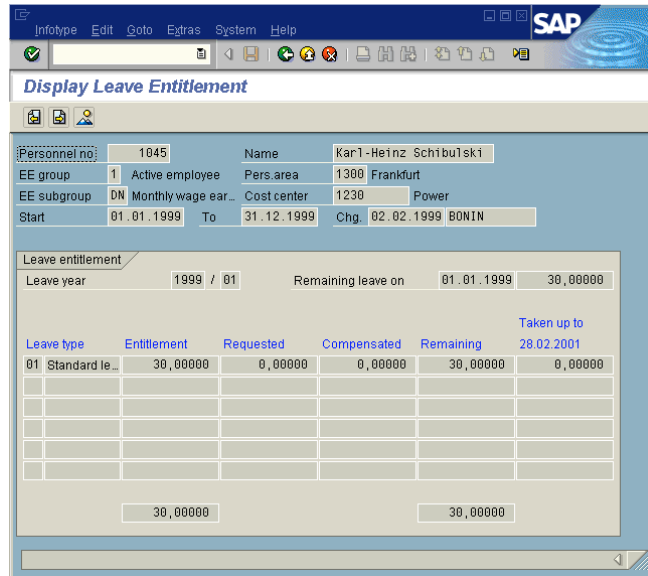
Karl-Heinz lives in the Ziegelgasse 20, 69117 Heidelberg. That house is about 17 km apart.

The screenshot shows the SAP 'Display Addresses' interface for employee 1045. The data is organized into several sections:

- Personnel no.:** 1045, **Name:** Karl-Heinz Schibulski
- EE group:** 1 Active employee, **Pers.area:** 1300 Frankfurt
- EE subgroup:** DN Monthly wage ear..., **Cost center:** 1230 Power
- Start:** 01.01.1996 to 31.12.9999, **Chng:** 12.12.1996 MIERZWA
- Address:**
 - Address type: Permanent residence
 - c/o: [empty]
 - House number/street: Ziegelgasse 20
 - Postal code / city: 69117 Heidelberg
 - District: [empty]
 - Country key: Germany
 - Telephone number: [empty]
- Other data:**
 - Distance in km.: 17
 - Company housing: [empty]

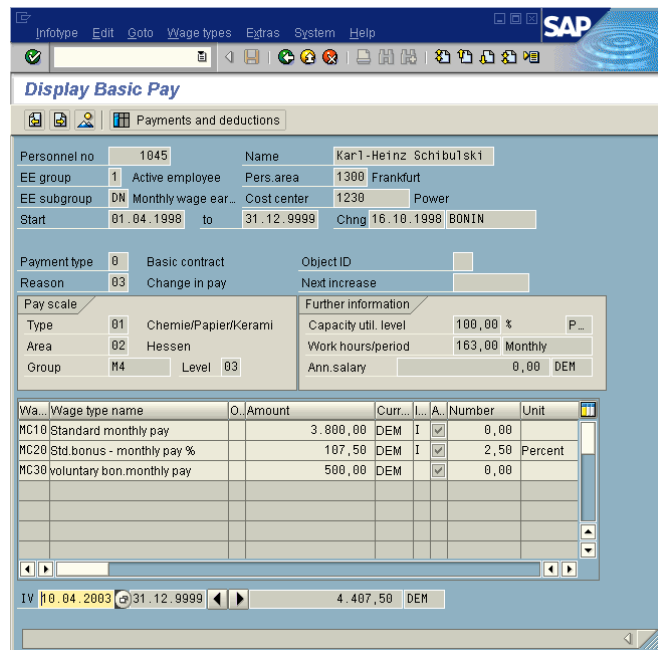
VII) How many days of leave he was entitled in 1999, how many day did he request that year ?

Even though the company entitled him 30 days he did not request a single one.



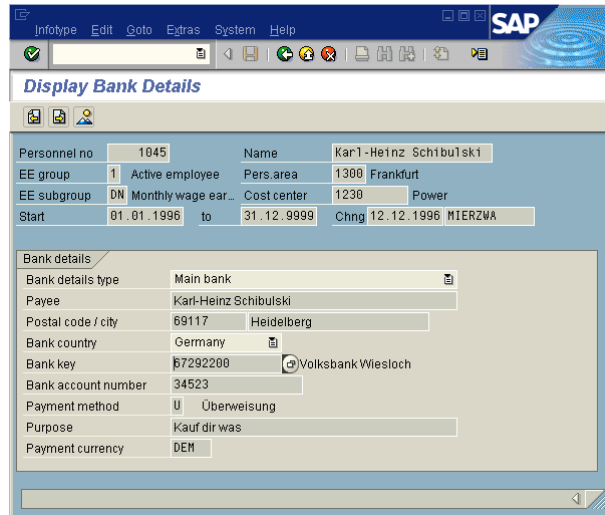
VIII) What is his standard monthly pay ?

The SAP R/3 installation we worked with is a bit outdated, it still insists on the former German currency DEM (Deutsche Mark). Mr. Schibułski gets (or better to say: got) 3800 DEM every month.



IX) Where does he have a bank account (where does his monthly pay go to), what purpose does his employer note on the money transfer forms?

He runs a bank account at the Volksbank Wiesloch (bank key 67292200), his account number is 34523. The employer notes on the money transfer form „Kauf dir was“ which may be translated as „Buy something“.



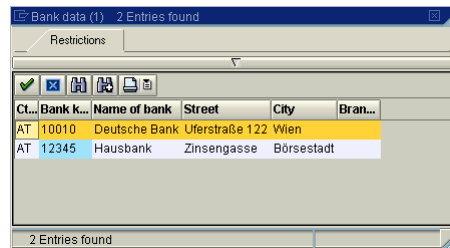
b) *Financial Accounting - You want to find out to which banks your company already has established business connections (i.e., to which banks are master records available). You first concentrate on German banks. How many German banks are known to the system ? What is the name of the bank with the lowest banking key ? How many Swiss banks are known in the system ? How many Austrian banks ? Find the names and the banking keys for all banks that are located in Vienna.*

Because this question covers quite a few areas of Financial Accounting I subdivide the task into smaller chunks.

The system is aware of 56 German banks. The yellow marked line highlights the bank bearing the lowest banking key (10010010).

Ct.	Bank key	Name of bank	Street	City	Branch
DE	10010010	Giro-Bank	Park-Strasse 12	6000 Frankfurt	
DE	10020030	Deutsche Bank	Frankfurter Str.123	Frankfurt	
DE	10035087	Sparkasse Leipzig	Astoria Ring	Leipzig	
DE	10050000	Landesbank Berlin	Prinzenallee 12	1000 Berlin 61	
DE	10050033	Dresdner Bank Berlin	Leibziger Str. 87	Berlin	
DE	10085038	Commerzbank Halle	Innerer Ring 287	Halle	
DE	12312312	Citibank			
DE	12388823	Deutsche Bank Paderborn	Am Western Tor	Paderborn	
DE	19652993	Hypo Bank Berlin	Rostocker Str. 03	Berlin	
DE	20000000	Zentralbank	Hanseaten Straße 1	Hamburg	
DE	20000001	Interbank	Alsterallee 222	Hamburg	
DE	20030040	Dresdner Bank	Frankfurter Str. 234	Frankfurt	
DE	20050000	Deutsche Bank Hamburg	Twiete 23	Hamburg	
DE	23022200	Volksbank Marschfelden	Gierstraße 27	Marschfelden	
DE	23984899	Vereinsbank München	Aumüllerstr. 33	München	
DE	25010023	Postbank			
DE	25010030	Postbank Hannover		Hannover	
DE	25010060	Postbank Frankfurt	Werner Platz 1	Frankfurt	
DE	25012345	Deutsche Bank Hannover	Adenauer Platz 2		30100 Hannover
DE	29652993	Ostbank Berlin	Rostocker Str. 29	Berlin	
DE	30080000	Hypo Bank München	Leonoldstr. 10	München	

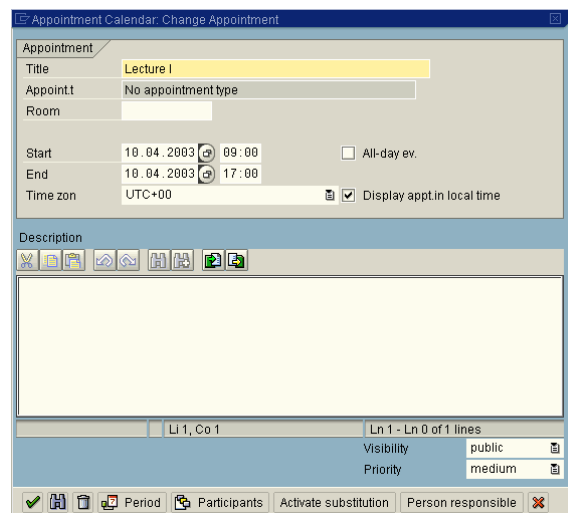
Surprisingly, there is no Swiss bank stored in the system's databases. Nevertheless two Austrian banks exist, one in Vienna (Deutsche Bank, key 10010) and the other one in Börsestadt.



Cl...	Bank k...	Name of bank	Street	City	Bran...
AT	10010	Deutsche Bank	Uferstraße 122	Wien	
AT	12345	Hausbank	Zinsengasse	Börsestadt	

- c) *Office Applications* - In the SAP R/3 system, there is also a bunch of office functionality available. Go to your personal calendar and enter the seven lecture dates (during the lectures, you are of course not available to participate in business meetings with your colleagues). Plan an appointment with some of your colleagues (figure out whether they are available) and make a room reservation. How many rooms at Walldorf are available and can be booked via the system? What are the names of these rooms? How many people fit into them? Send a short message to the user schuldt by using the built-in message functionality in SAP R/3 (available under the Systems Menu).

I planned all meetings as required – now I am shocked how busy my schedule is !



Appointment Calendar: Change Appointment

Appointment

Title: Lecture 1

Appoint.t: No appointment type

Room:

Start: 10.04.2003 09:00 All-day ev.

End: 10.04.2003 17:00

Time zon: UTC+00 Display appt.in local time

Description

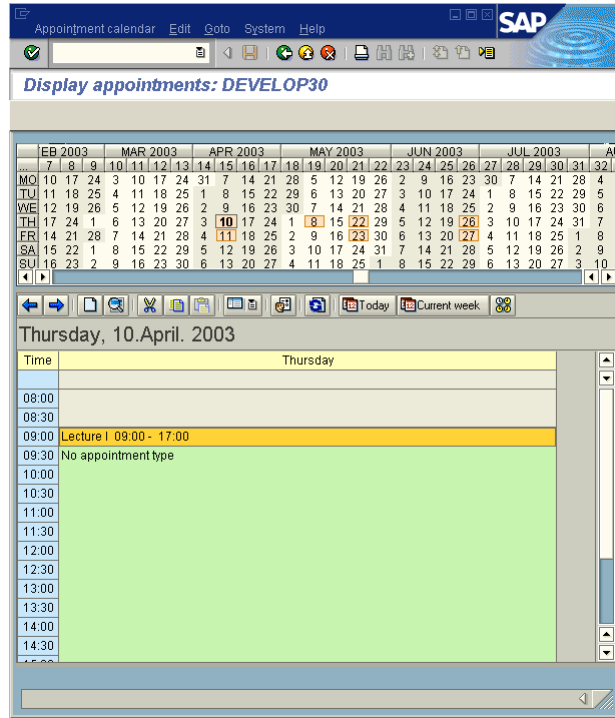
Ln 1, Co 1

Ln 1 - Ln 0 of 1 lines

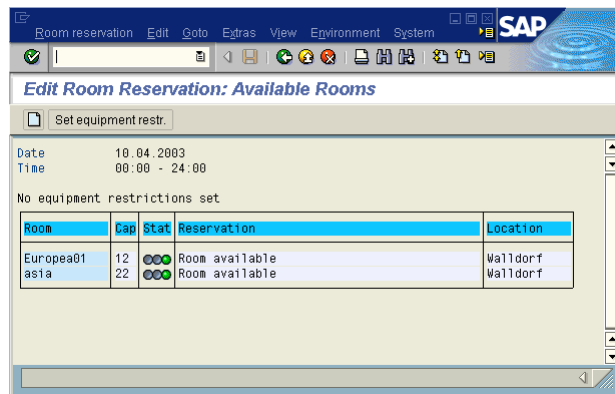
Visibility: public

Priority: medium

Period Participants Activate substitution Person responsible



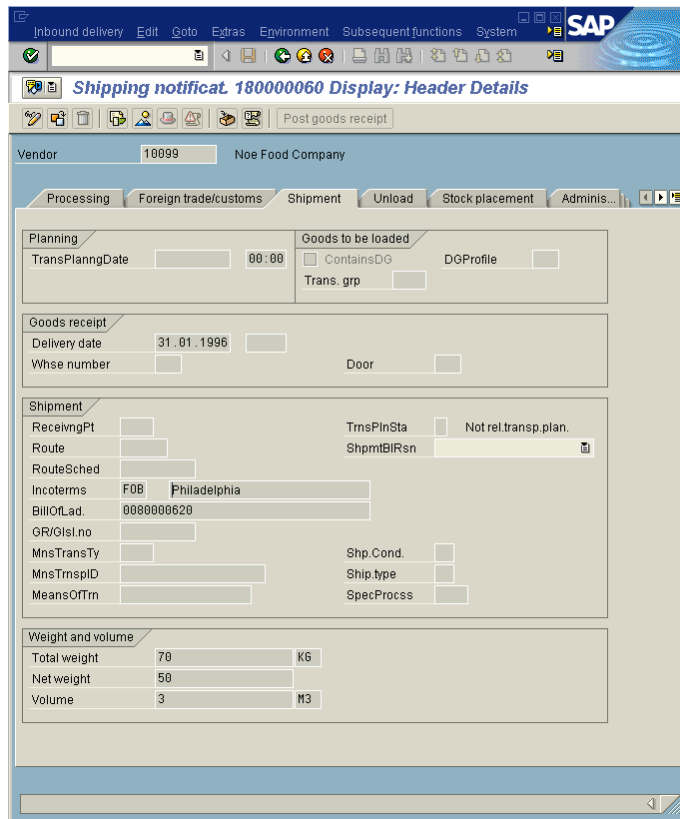
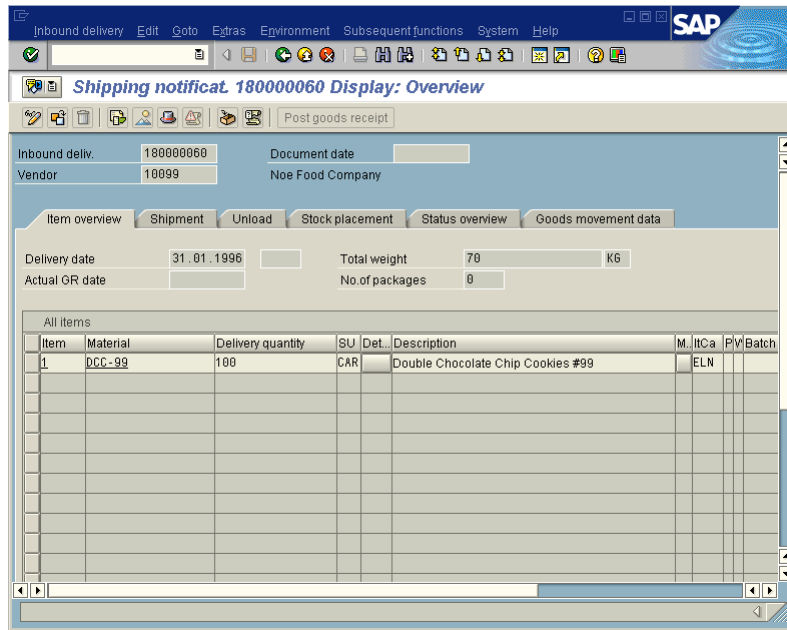
In Walldorf, two rooms are available: one called Europea01 (12 chairs) and the other one called asia (capacity: 22).

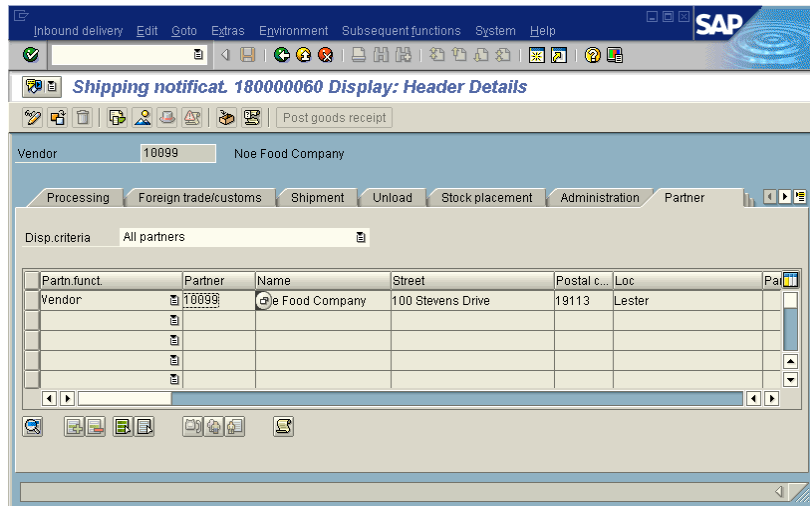


The message was sent successfully but unfortunately I forgot to take some screenshots.

- d) *Logistics - While walking after lunch from the cafeteria to your office, you find on the campus of your company an old box on which a sheet of paper is attached. The only thing you can read on this sheet of paper is Inbound Delivery 180000060. Try to find out what has been in this box, when it has been delivered, the weight of the box (including its original contents) and from whom the box has been delivered. Can you also find out at which branch of your world-wide company you are located ?*

The box contained or still contains 70 kg (net weight: 50 kg) Double Chocolate Chip Cookies #99. They were delivered on January 31, 1996 by Noe Food Company. We are located in Philadelphia, PA, USA.





Phew, this is the end – and I need some cookies immediately.