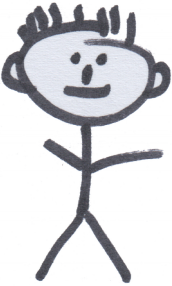
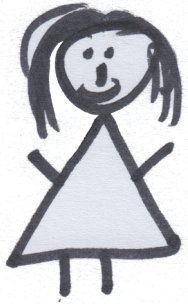


Oracle Introduction

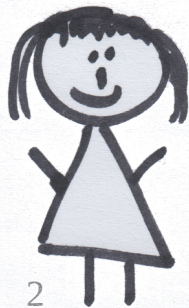
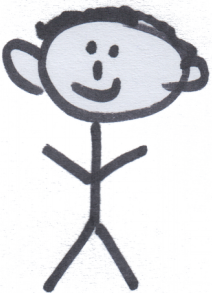
Mag. Thomas Griesmayer

Multi user database

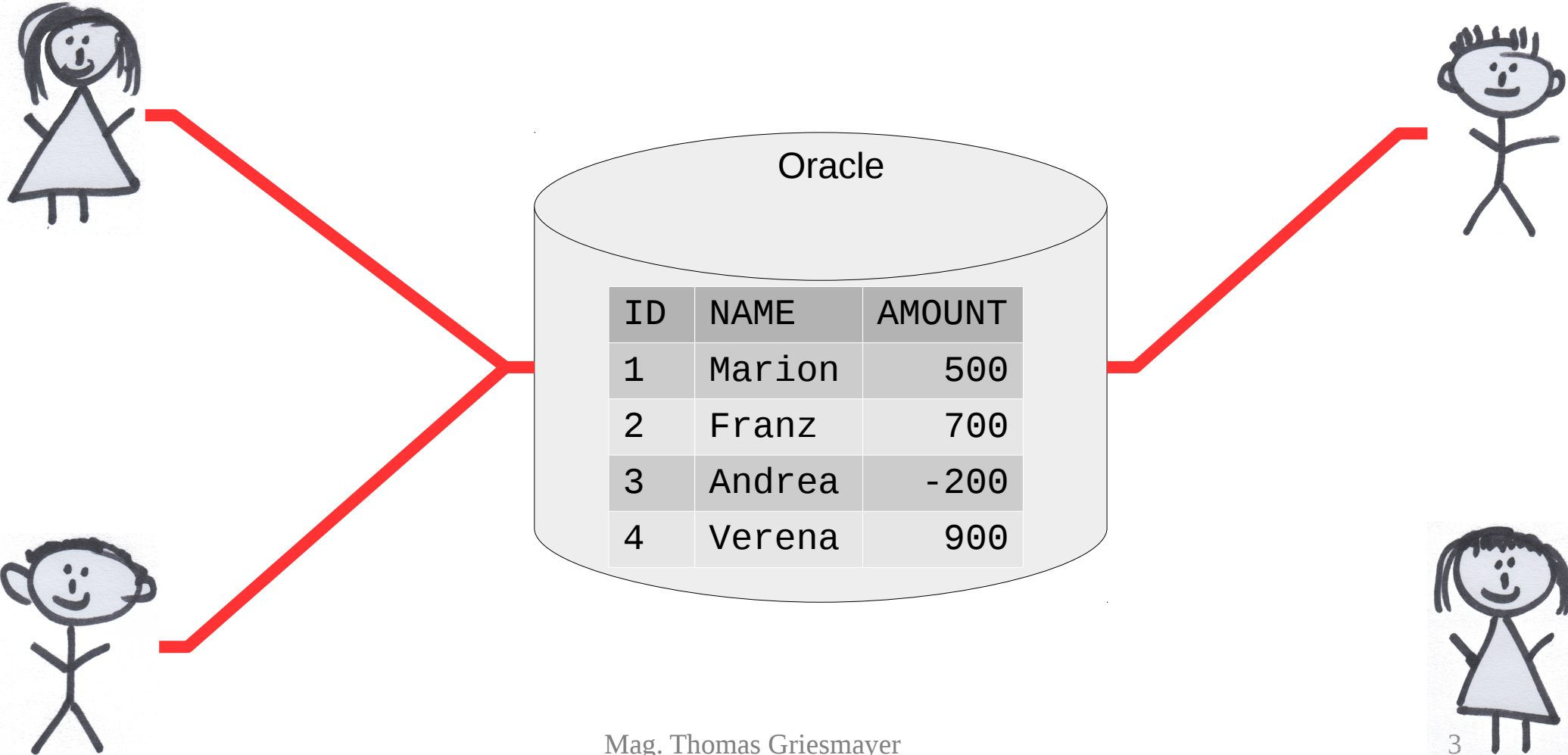


Oracle

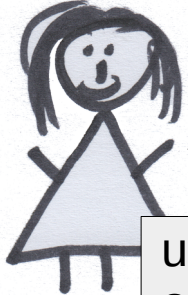
ID	NAME	AMOUNT
1	Marion	500
2	Franz	700
3	Andrea	-200
4	Verena	900



Authorization



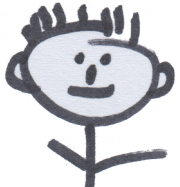
Transaction



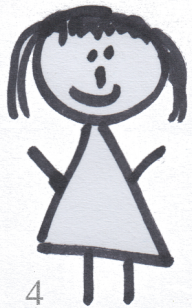
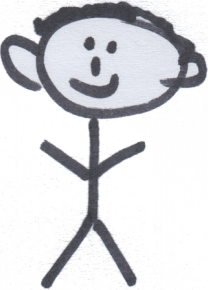
```
update ACCOUNTS  
set AMOUNT=300  
where ID=2
```

Oracle

ID	NAME	AMOUNT
1	Marion	500
2	Franz	700
3	Andrea	-200
4	Verena	900



```
select AMOUNT  
from ACCOUNTS  
where ID = 2
```



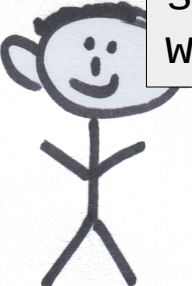
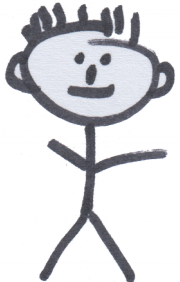
Locking



```
update ACCOUNTS  
set AMOUNT=300  
where ID=2
```

Oracle

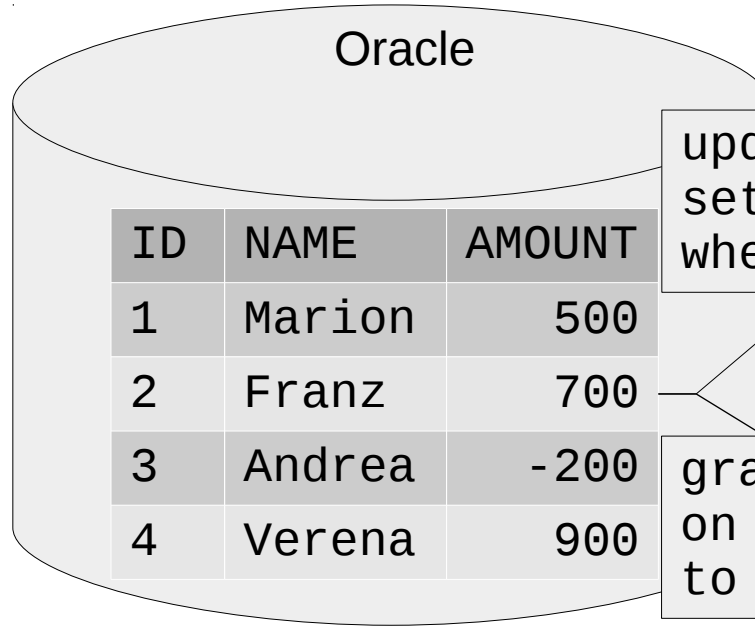
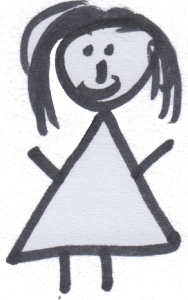
ID	NAME	AMOUNT
1	Marion	500
2	Franz	700
3	Andrea	-200
4	Verena	900



```
update ACCOUNTS  
set AMOUNT=600  
where ID=2
```



Rights

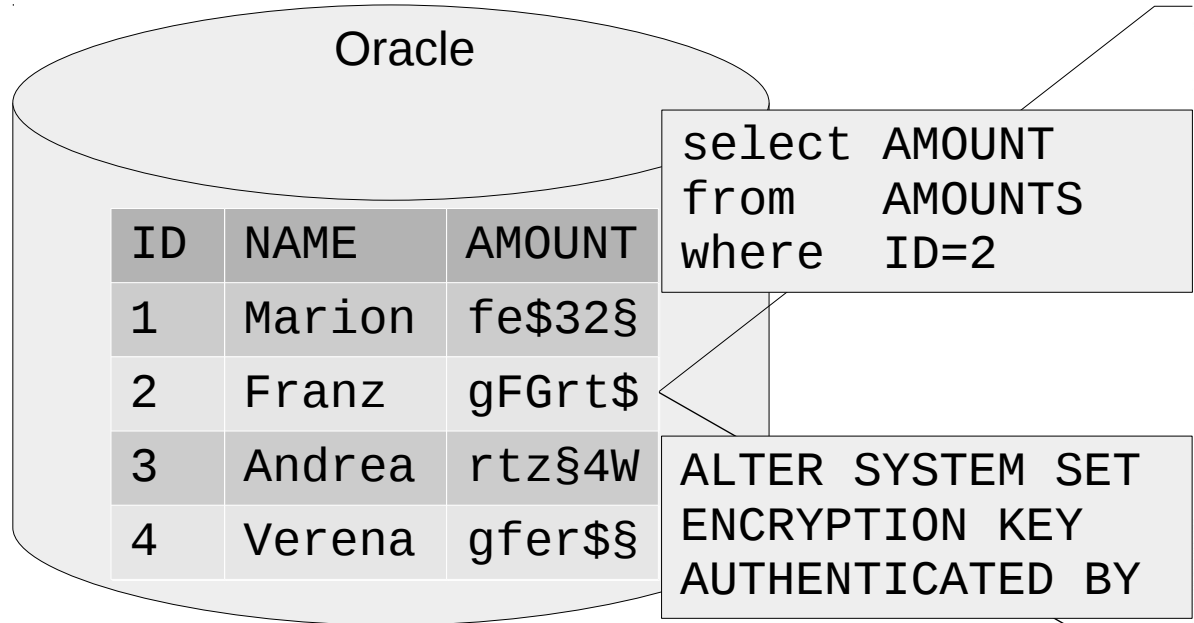


```
update ACCOUNTS
set    AMOUNT=200
where  ID=2
```

```
grant UPDATE
on     EMPLOYEE
to    ALEX
```



Encryption



Business logic

Oracle

ID	NAME	AMOUNT
1	Marion	500
2	Franz	700
3	Andrea	-200
4	Verena	900

```
insert into  
ACCOUNTS  
values (5, .....)
```



Business logic

Oracle

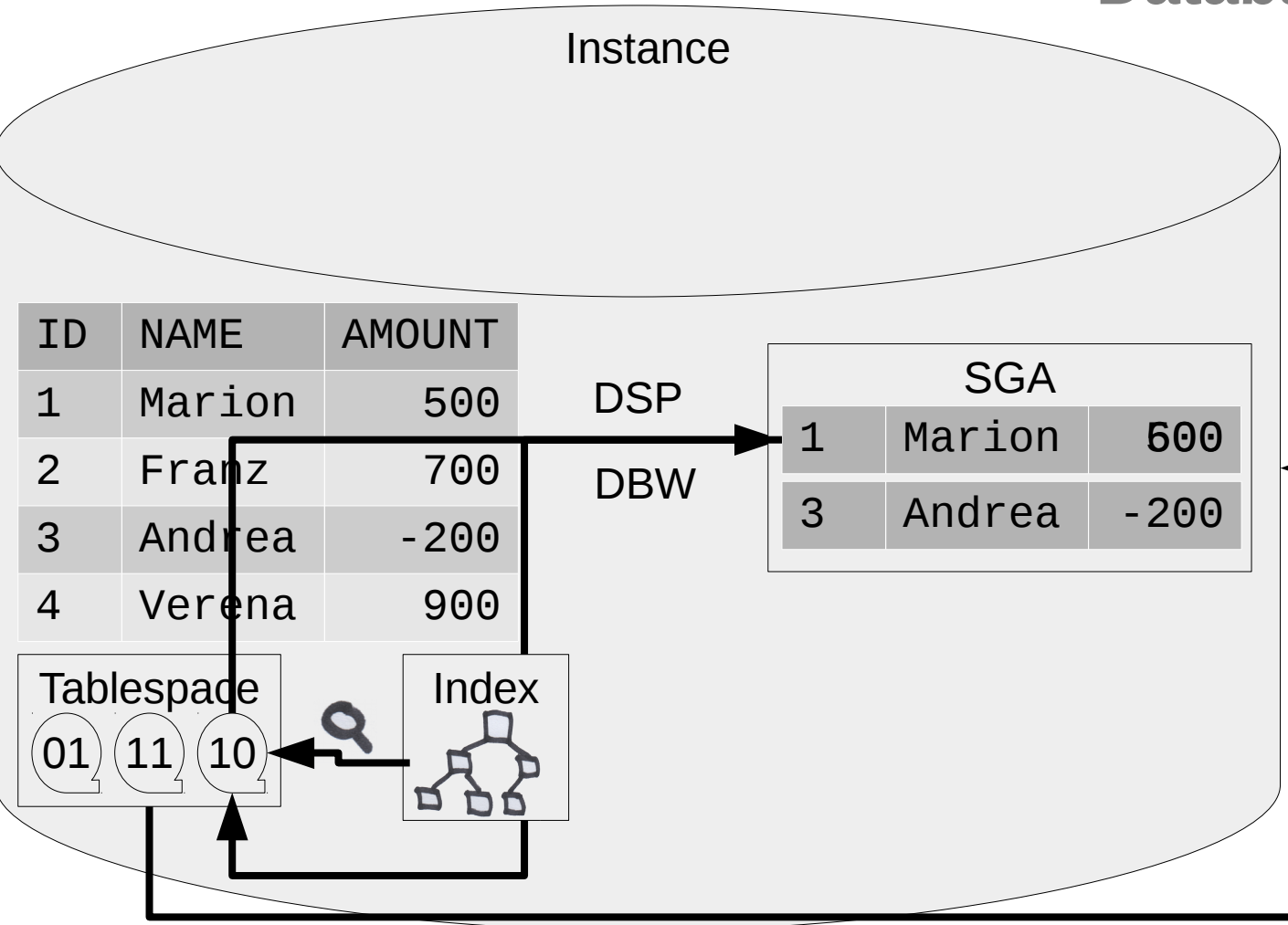
ID	NAME	AMOUNT	
1	Marion	500	create sequence SEQ_ID
2	Franz	700	create trigger TRG_AMT
3	Andrea	-200	create procedure NEW_ACC create procedure TRN_AMT
4	Verena	900	

call TRN_AMT

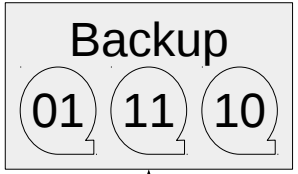
~~UPDATE~~



Database internals



```
update ACCOUNTS
set AMOUNT=600
where ID=1
```



File Machine Help

Preferences... Ctrl+G

Import Appliance...

Export Appliance...

Virtual Media Manager...

Network Operations Manag

Reset All Warnings

Exit

Import Virtual Appliance

Appliance to import

VirtualBox curr
Virtualization F
|Box/ImageOri

Exp

Import Virtual Appliance

Appliance settings

These are the virtual machines contained in the appliance and the suggested settings of the imported VirtualBox machines. You can change many of the properties shown by double-clicking on the items and disable others using the check boxes below.

Description	Configuration
Virtual System 1	
Name	4cbif
Guest OS Type	Oracle (32-bit)
CPU	2
RAM	4000 MB
Floppy	<input checked="" type="checkbox"/>
DVD	<input checked="" type="checkbox"/>

 Reinitialize the MAC address of all network cards

Appliance is not signed

Restore Defaults

< Back

Import

Cancel

Import an appliance into VirtualBox

Floppy Device 0:

Mag.

Operating system login

Enterprise Linux 5

Username:

oracle

Please enter your username

Enterprise Linux 5

Password:

.....

oracle

Start Enterprise Manager

```
[oracle@localhost ~]$ emctl start dbconsole
Oracle Enterprise Manager 11g Database Control Release 11.2.0.2.0
Copyright (c) 1996, 2010 Oracle Corporation. All rights
reserved.
https://localhost.localdomain:1158/em/console/aboutApplication
Starting Oracle Enterprise Manager 11g Database Control .....
started.
-----
Logs are generated in directory
/home/oracle/app/oracle/product/11.2.0/dbhome_2/localhost.localdo
main_orcl/sysman/log
[oracle@localhost ~]$
```



SQL Developer 3.2

SQL Developer

New / Select Database Connection

Connection ...	Connection ...
demo	demo@//loc...

Connection Name

Username

Password

Save Password

Oracle

Connecti

Hostnam

Port

SID

Service

OS Au

Status :

Help

Save

New / Select Database Connection

Connection ...	Connection ...
demo	demo@//loc...

Connection Name

Username

Password

Save Password

Oracle TimesTen

Connection Type Role

Network Alias

Connect Identifier

OS Authentication Kerberos Authentication Proxy Connection

Status : Success

Help

Save

Clear

Test

Cancel

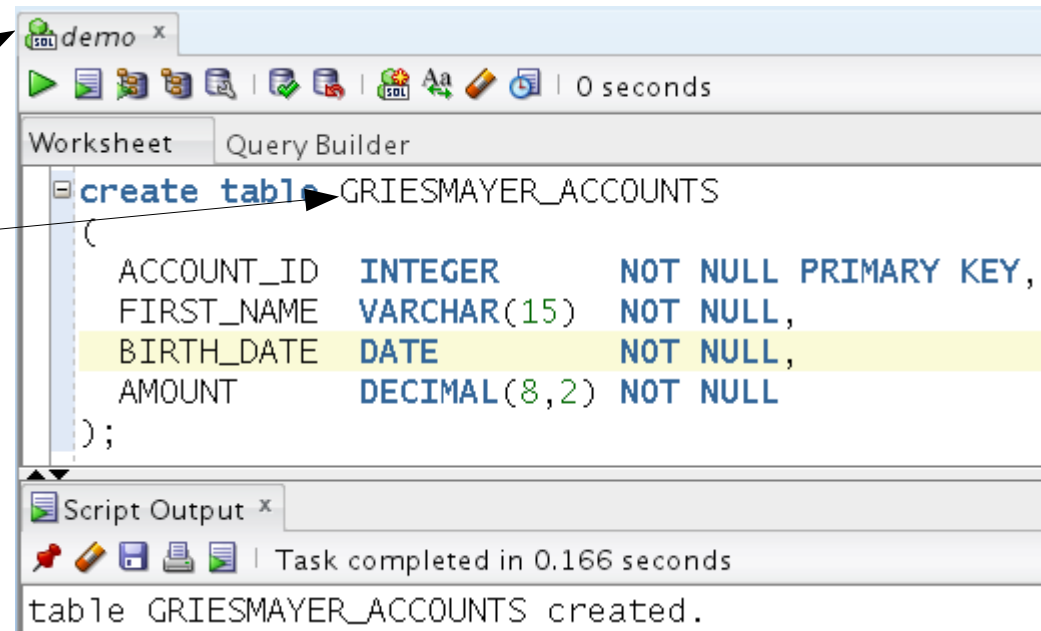
Create table

```
CREATE TABLE GRIESMAYER_ACCOUNTS  
(  
  ACCOUNT_ID    INTEGER      NOT NULL PRIMARY KEY,  
  FIRST_NAME    VARCHAR(15)  NOT NULL,  
  BIRTH_DATE    DATE         NOT NULL,  
  AMOUNT        DECIMAL(8,2) NOT NULL  
);
```

HAND OVER:

- Connection
- Tablename

SCREENSHOT
with YOUR NAME!!!



Create table

```
CREATE TABLE GRIESMAYER_ACCOUNTS
(
  ACCOUNT_ID    INTEGER      NOT NULL PRIMARY KEY,
  FIRST_NAME    VARCHAR(15)  NOT NULL,
  BIRTH_DATE    DATE         NOT NULL,
  AMOUNT        DECIMAL(8,2) NOT NULL
);
```

Always use CAPITAL LETTERS, because Oracle transfers everything into CAPITAL LETTERS.

Create table

```
CREATE TABLE GRIESMAYER_ACCOUNTS
(
  ACCOUNT_ID    INTEGER          NOT NULL PRIMARY KEY,
  FIRST_NAME    VARCHAR(15)      NOT NULL,
  BIRTH_DATE    DATE              NOT NULL,
  AMOUNT        DECIMAL(8,2)     NOT NULL
);
```

Always use CAPITAL LETTERS, because Oracle transfers everything into CAPITAL LETTERS.

Insert into

```
INSERT INTO GRIESMAYER_ACCOUNTS VALUES  
(1, 'Thomas', TO_DATE('1973-07-14', 'yyyy-mm-dd'), 500.50);
```

```
INSERT INTO GRIESMAYER_ACCOUNTS VALUES  
(2, 'Andera', TO_DATE('1975-08-20', 'yyyy-mm-dd'), 100.00);
```

```
INSERT INTO GRIESMAYER_ACCOUNTS VALUES  
(3, 'Marion', TO_DATE('1981-12-12', 'yyyy-mm-dd'), -200.00);
```

```
INSERT INTO GRIESMAYER_ACCOUNTS VALUES  
(4, 'Verena', TO_DATE('1977-01-27', 'yyyy-mm-dd'), 900.00);
```

```
INSERT INTO GRIESMAYER_ACCOUNTS VALUES  
(5, 'Kurt', TO_DATE('1975-02-28', 'yyyy-mm-dd'), 800.40);
```

Select

HAND OVER:

- Connection
- Tablename

SCREENSHOT
with YOUR NAME!!!

The screenshot shows a SQL query builder window titled 'demo'. The query is: `SELECT * FROM GRIESMAYER_ACCOUNTS`. The 'FROM' clause and the table name are highlighted in yellow. Below the query, the 'Query Result' tab is active, showing a table with 5 rows and 4 columns: ACCOUNT_ID, FIRST_NAME, BIRTH_DATE, and AMOUNT. The status bar indicates 'All Rows Fetched: 5 in 0.012 seconds'.

	ACCOUNT_ID	FIRST_NAME	BIRTH_DATE	AMOUNT
1	1	Thomas	14-JUL-73	500.5
2	2	Andera	20-AUG-75	100
3	3	Marion	12-DEC-81	-200
4	4	Verena	27-JAN-77	900
5	5	Kurt	28-FEB-75	800.4