Faculty of Computers, Informatics and Microelectronics

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Databases and knowledge

Laboratory work#3

Creating and editing tables

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Laboratory work #2

1 Purpose of the laboratory work

Introduction to tables creation and edition.

2 Objectives

T-SQL and Oracle data types. Constraints. Creation, rename and update. table

3 Laboratory work implementation

3.1 Tasks and Points

Creation of tables. Updated of tables with required information.

3.2 Laboratory work analysis

Created database "calculatoare" with following tables: produse, pc_uri, laptop_uri and imprimante. I made this both in Microsoft SQL Server and Oracle.

3.3 Screens of my work

1. Care din numerele prezentate mai jos pot fi introduse într-un câmp de tipul *DECIMAL(4,1)*?

a) 16,2; **b) 116,2;** c) 16,21; d) 1116,2; e) 1116,21.

Figure 3.1– Answer for 1st question

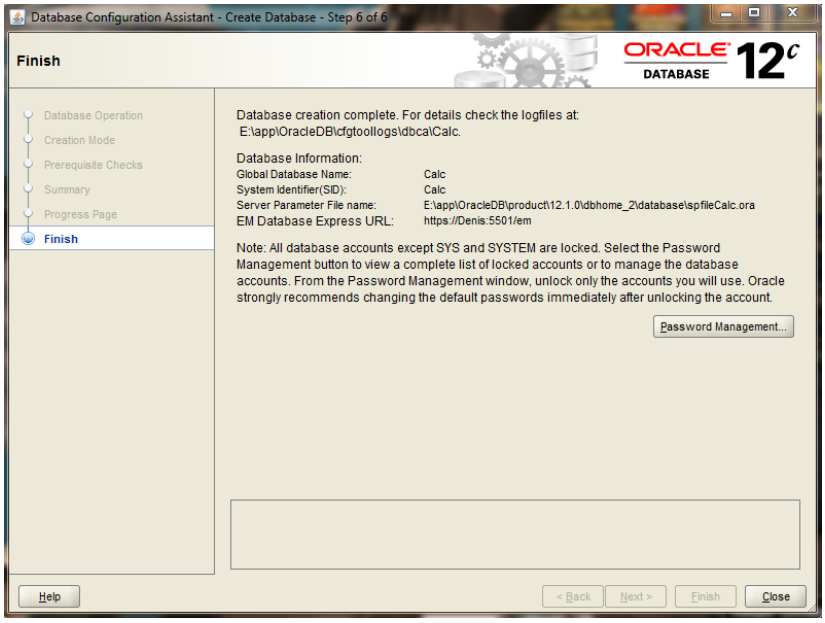


Figure 3.2– Creation of DB "calculatoare" in Oracle

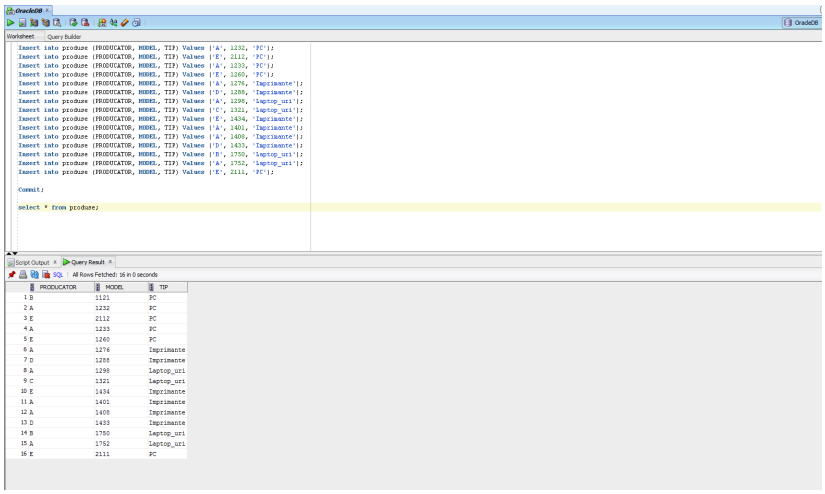


Figure 3.3– Update of table "produse", Oracle

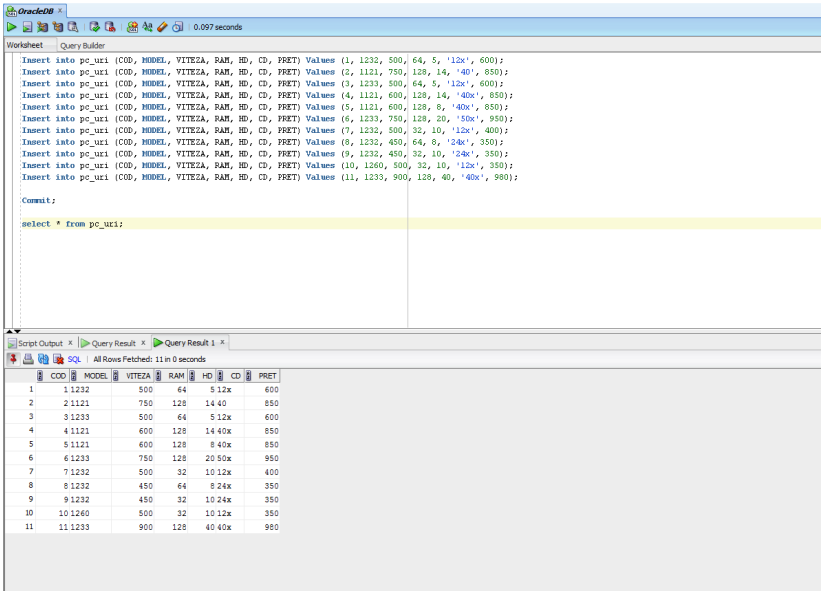


Figure 3.4– Update of table "pc_uri", Oracle

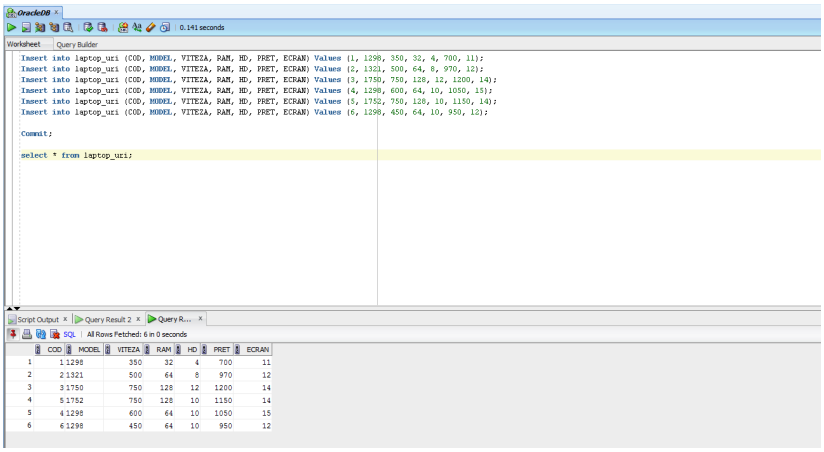


Figure 3.5– Update of table "laptop_uri", Oracle

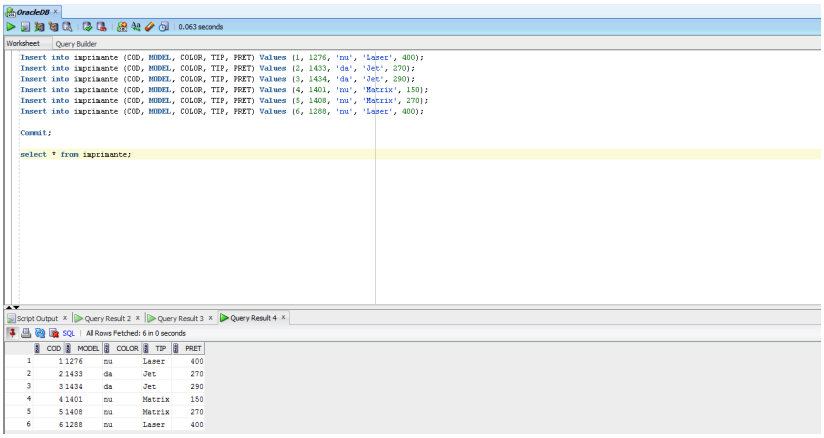


Figure 3.6– Update of table "imprimante", Oracle

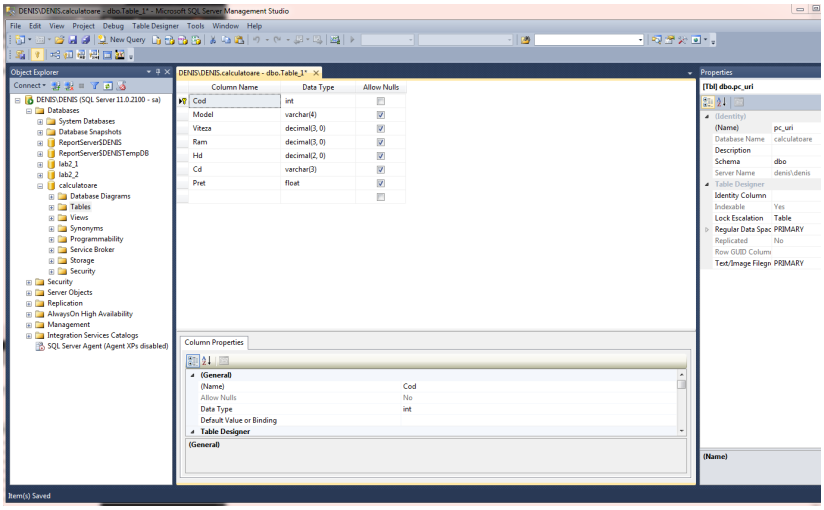


Figure 3.7– Creation of DB "calculatoare" in MS SQL Server

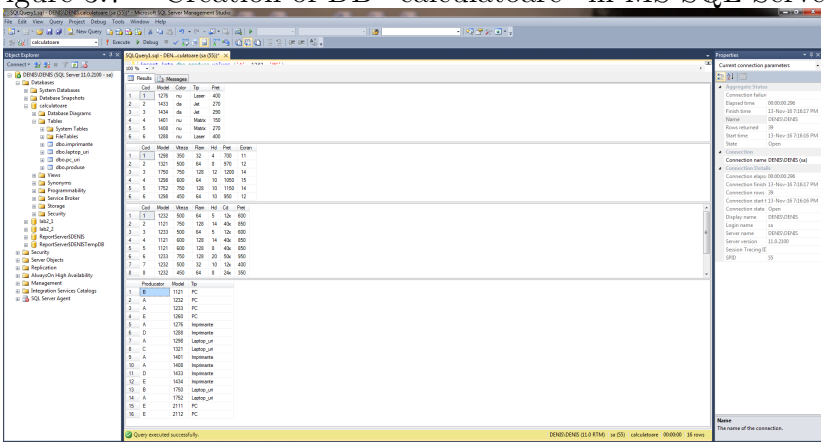
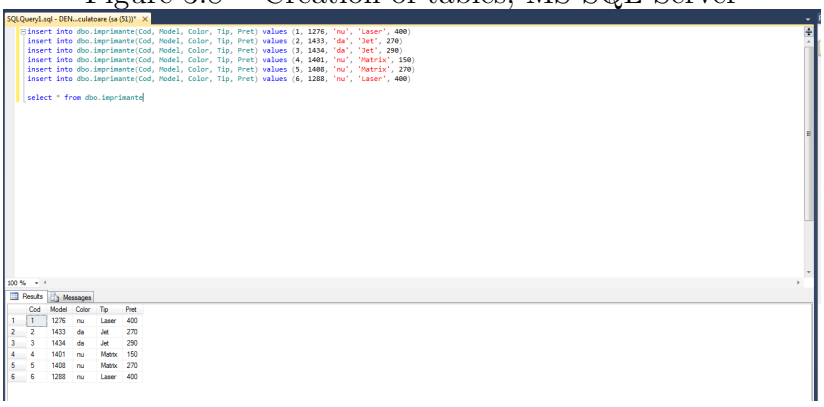


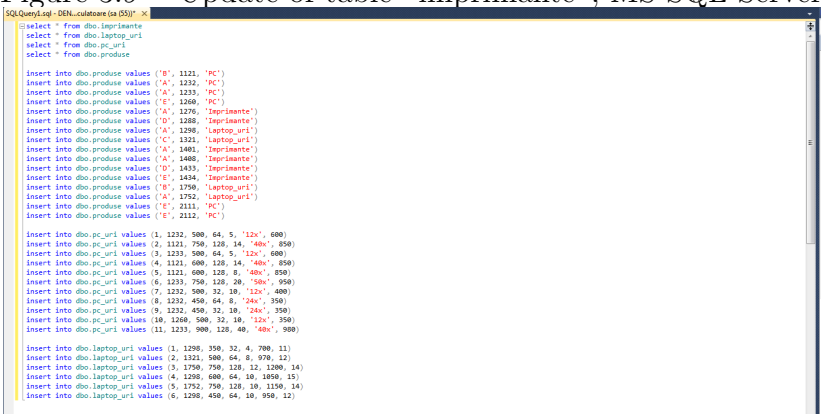
Figure 3.8– Creation of tables, MS SQL Server



```
insert into dbo.imprimante(Cod, Model, Color, Tip, Pret) values (1, 1276, 'nu', 'Laser', 400)
insert into dbo.imprimante(Cod, Model, Color, Tip, Pret) values (2, 1433, 'da', 'Jet', 270)
insert into dbo.imprimante(Cod, Model, Color, Tip, Pret) values (3, 1434, 'da', 'Jet', 290)
insert into dbo.imprimante(Cod, Model, Color, Tip, Pret) values (4, 1401, 'nu', 'Matrix', 150)
insert into dbo.imprimante(Cod, Model, Color, Tip, Pret) values (5, 1408, 'nu', 'Matrix', 270)
insert into dbo.imprimante(Cod, Model, Color, Tip, Pret) values (6, 1288, 'nu', 'Laser', 400)

select * from dbo.imprimante
```

Figure 3.9– Update of table "imprimante", MS SQL Server



```
select * from dbo.imprimante
select * from dbo.laptop_uri
select * from dbo.pc_uri
select * from dbo.produse

insert into dbo.produse values ('B', 1121, 'PC')
insert into dbo.produse values ('A', 1232, 'PC')
insert into dbo.produse values ('A', 1233, 'PC')
insert into dbo.produse values ('E', 1260, 'PC')
insert into dbo.produse values ('A', 1276, 'Imprimante')
insert into dbo.produse values ('D', 1288, 'Imprimante')
insert into dbo.produse values ('A', 1298, 'Laptop_uri')
insert into dbo.produse values ('C', 1321, 'Laptop_uri')
insert into dbo.produse values ('A', 1401, 'Imprimante')
insert into dbo.produse values ('A', 1408, 'Imprimante')
insert into dbo.produse values ('D', 1433, 'Imprimante')
insert into dbo.produse values ('E', 1434, 'Imprimante')
insert into dbo.produse values ('B', 1750, 'Laptop_uri')
insert into dbo.produse values ('A', 1752, 'Laptop_uri')
insert into dbo.produse values ('E', 2111, 'PC')
insert into dbo.produse values ('E', 2112, 'PC')

insert into dbo.pc_uri values (1, 1232, 500, 64, 5, '12x', 600)
insert into dbo.pc_uri values (2, 1121, 750, 128, 14, '40x', 850)
insert into dbo.pc_uri values (3, 1233, 500, 64, 5, '12x', 600)
insert into dbo.pc_uri values (4, 1121, 600, 128, 14, '40x', 850)
insert into dbo.pc_uri values (5, 1121, 600, 128, 8, '40x', 850)
insert into dbo.pc_uri values (6, 1233, 750, 128, 20, '50x', 950)
insert into dbo.pc_uri values (7, 1232, 500, 32, 10, '12x', 400)
insert into dbo.pc_uri values (8, 1232, 450, 64, 8, '24x', 350)
insert into dbo.pc_uri values (9, 1232, 450, 32, 10, '24x', 350)
insert into dbo.pc_uri values (10, 1260, 500, 32, 10, '12x', 350)
insert into dbo.pc_uri values (11, 1233, 900, 128, 40, '40x', 980)

insert into dbo.laptop_uri values (1, 1298, 350, 32, 4, 700, 11)
insert into dbo.laptop_uri values (2, 1321, 500, 64, 8, 970, 12)
insert into dbo.laptop_uri values (3, 1750, 750, 128, 12, 1200, 14)
insert into dbo.laptop_uri values (4, 1298, 600, 64, 10, 1050, 15)
insert into dbo.laptop_uri values (5, 1752, 750, 128, 10, 1150, 14)
insert into dbo.laptop_uri values (6, 1298, 450, 64, 10, 950, 12)
```

Figure 3.10– Update of tables "produse", "pc_uri" and "laptop_uri", MS SQL Server

Conclusions

While performing laboratory work #3 were gained basic skills of management of tables in MS SQL Server and Oracle. The process of tables creation, both in MS SQL Server and Oracle, is simple, thus easy to create a new table. One of the particularities of Oracle is the necessity of using "Commit" statement.

References

1 Installing SQL Server 2012 Standard Edition, http://www.exactsoftware.com/docs/DocView.aspx?DocumentID=%7B2e5c88a9-8611-4cb1-b229-92cac363e2fd%7D&NoHeader=1&NoSubject=1

2 Oracle, *official page*, www.oracle.com