اعضای گروه: حنانه کلانتری – ۹۶۲۹۶۶۳ هستی دانش کیا – ۹۶۲۶۷۲۳ ثنا نوری – ۹۷۳۱۰۰۳

Tables

```
create table product (
    productKey int primary key,
    productName varchar(255),
    price int,
    instant_delivery bit,
    seller varchar(255),
    brand varchar(255),
    available int,
    numOfView int,
    numOfSales int,
    score int,
    promotion_status int,
    outstanding_offer bit,
    discount int
);
```

```
create table userTable (
    mobile char(10) primary key,
    email varchar(255),
    username varchar(255),
    credit_card_number int,
    user_address varchar(255)
);
```

```
create table form (
    code int primary key identity(1,1),
    topic varchar(255),
    positive_points varchar(255),
    negative_points varchar(255),
    context varchar(255),
    includes_picture bit,
    suggest_to_others bit,
    productKey int foreign key references product(productKey) on delete cascade,
    user_mobile char(10) foreign key references userTable(mobile) on delete cascade
);
```

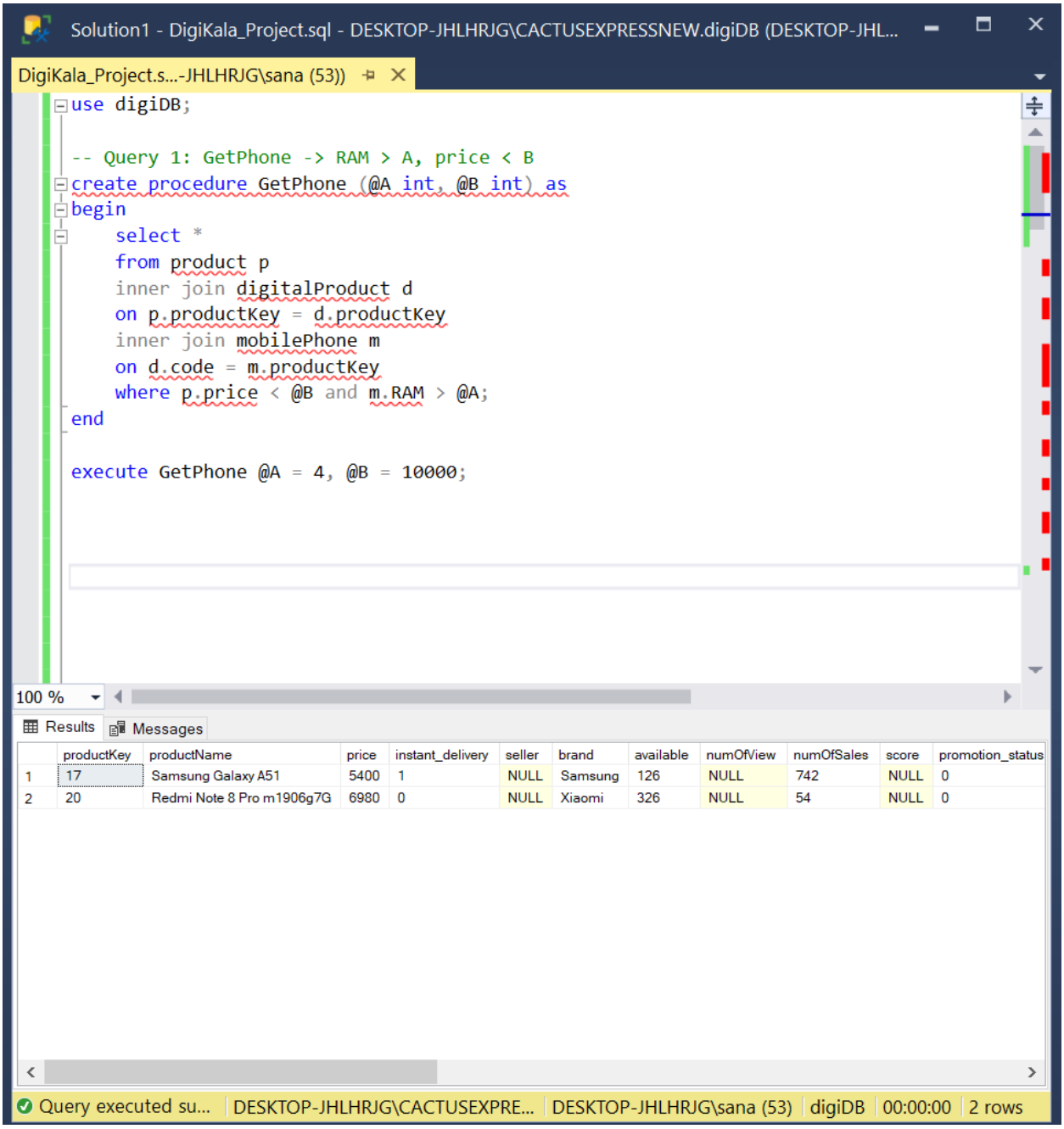
```
create table digitalProduct (
    code int primary key,
    guaranted bit,
    size int,
    special_functions varchar(255),
    model varchar(255),
    weightValue int,
    productKey int foreign key references product(productKey) on delete cascade
);
```

```
create table mobileAccessory (
    code int primary key,
    usableFor varchar(255),
    productKey int foreign key references digitalProduct(code) on delete cascade
);
```

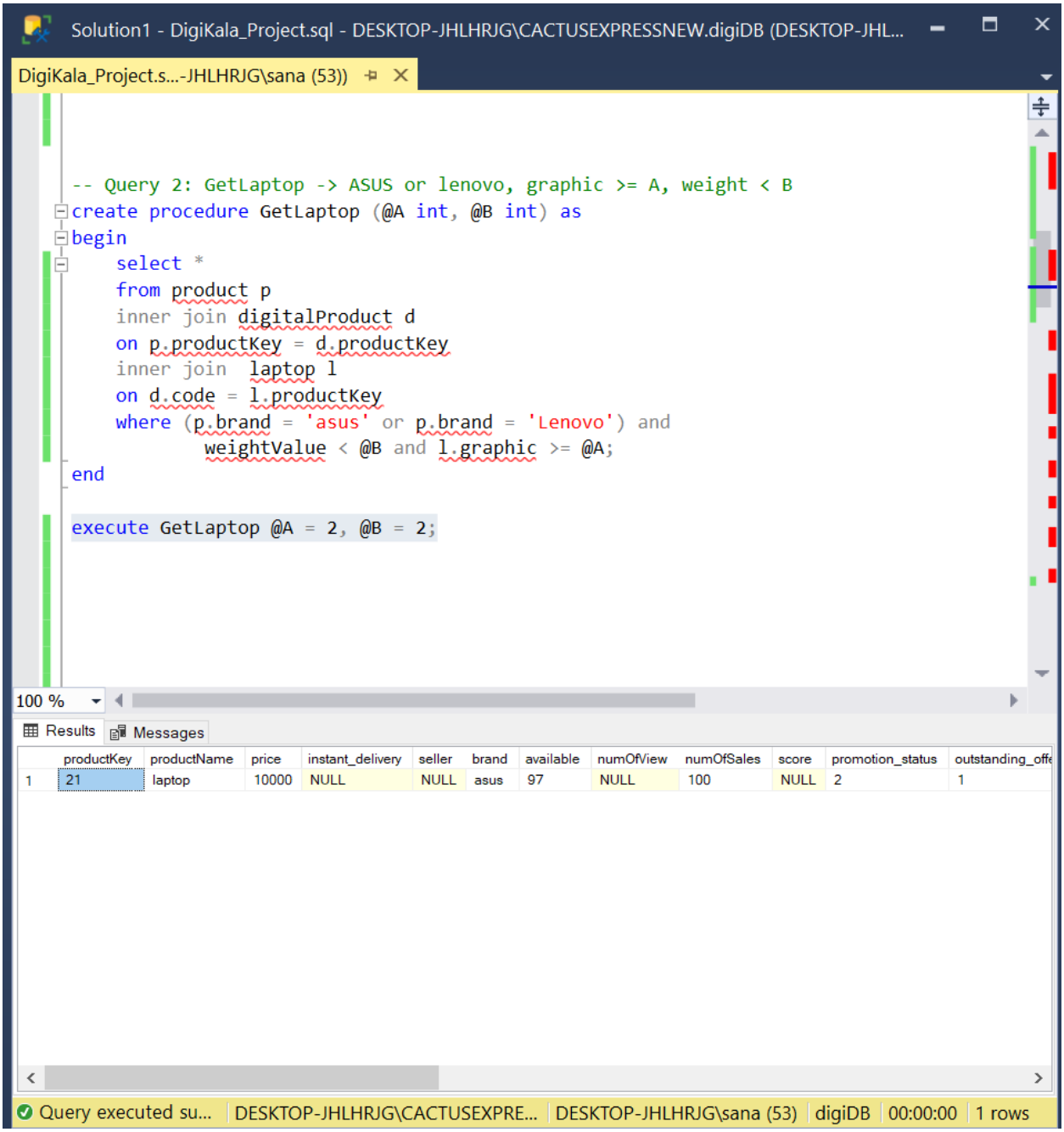
```sql
create table mobilePhone (
    model varchar(255),
    networkConnection varchar(255),
    OStype varchar(255),
    OSversion varchar(255),
    resolution int,
    technology varchar(255),
    RAM int,
    internalMemory int,
    productKey int foreign key references digitalProduct(code) on delete cascade
);

create table computerAccessory (
    code int primary key,
    hasUSBport bit,
    hasHTMLport bit,
    hasDVIport bit,
    productKey int foreign key references digitalProduct(code) on delete cascade
);

create table laptop (
    RAM int,
    graphic int,
    internalMemory int,
    displaySize int,
    resolution int,
    OS varchar(255),
    GPUproduser varchar(255),
    CPU varchar(255),
    RAMtype varchar(255),
    touchScreen bit,
    productKey int foreign key references digitalProduct(code) on delete cascade
);

create table powerBank (
    numOfPort int,
    capacity int,
    material varchar(255),
    outputCurrency int,
    powerDelivery bit,
    productKey int foreign key references mobileAccessory(code) on delete cascade
);

create table data_storage_hardware (
    code int primary key,
    capacity int,
    water_proof bit,
    shock_proof bit,
    productKey int foreign key references computerAccessory(code) on delete cascade
);
```

```sql
create table keyboard (
    connectionType varchar(255),
    portType varchar(255),
    hasMouse bit,
    has_mic_handsfreePort bit,
    water_proof bit,
    productKey int foreign key references computerAccessory(code) on delete cascade
);

create table external_hard_disk (
    capacity int,
    water_proof bit,
    shock_proof bit,
    productKey int foreign key references data_storage_hardware(code) on delete cascade
);

create table mobileStand (
    chargable bit,
    wirelessCharge bit,
    rotation360 int,
    productKey int foreign key references mobileAccessory(code) on delete cascade
);

create table monitor (
    hasSpeaker bit,
    panelType varchar(255),
    background_lighting varchar(255),
    display varchar(255),
    resolution int,
    response_rate int,
    productKey int foreign key references computerAccessory(code) on delete cascade
);

create table bagAndCover (
    material varchar(255),
    structure varchar(255),
    productKey int foreign key references mobileAccessory(code) on delete cascade
);


create table assembledCase (
    internal_memory int,
    RAM int,
    memoryType varchar(255),
    CPUproducer varchar(255),
    productKey int foreign key references computerAccessory(code) on delete cascade
);
```

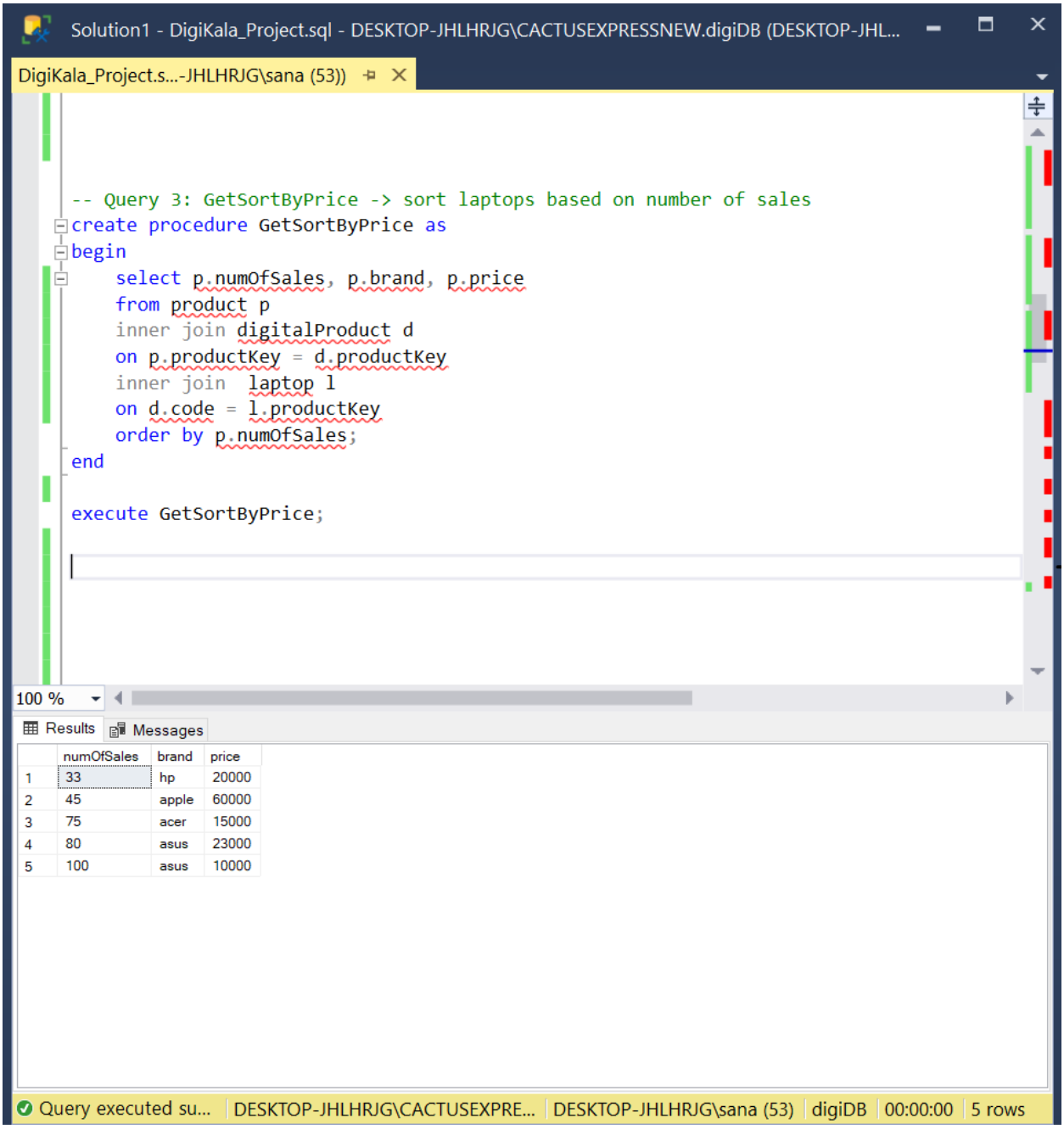
GetPhone


Solution1 - DigiKala_Project.sql - DESKTOP-JHLHRJG\CACTUSEXPRESSNEW.digiDB (DESKTOP-JHL...
DigiKala_Project.s...-JHLHRJG\sana (53))
use digiDB;
-- Query 1: GetPhone -> RAM > A, price < B
create procedure GetPhone (@A int, @B int) as
begin
select *
from product p
inner join digitalProduct d
on p.productKey = d.productKey
inner join mobilePhone m
on d.code = m.productKey
where p.price < @B and m.RAM > @A;
end
execute GetPhone @A = 4, @B = 10000;
100 %
Results
Messages
productKey productName price instant_delivery seller brand available numOfView numOfSales score promotion_status
1 17 Samsung Galaxy A51 5400 1 NULL Samsung 126 NULL 742 NULL 0
2 20 Redmi Note 8 Pro m1906g7G 6980 0 NULL Xiaomi 326 NULL 54 NULL 0
Query executed su...
DESKTOP-JHLHRJG\CACTUSEXPRE...
DESKTOP-JHLHRJG\sana (53)
digiDB
00:00:00
2 rows

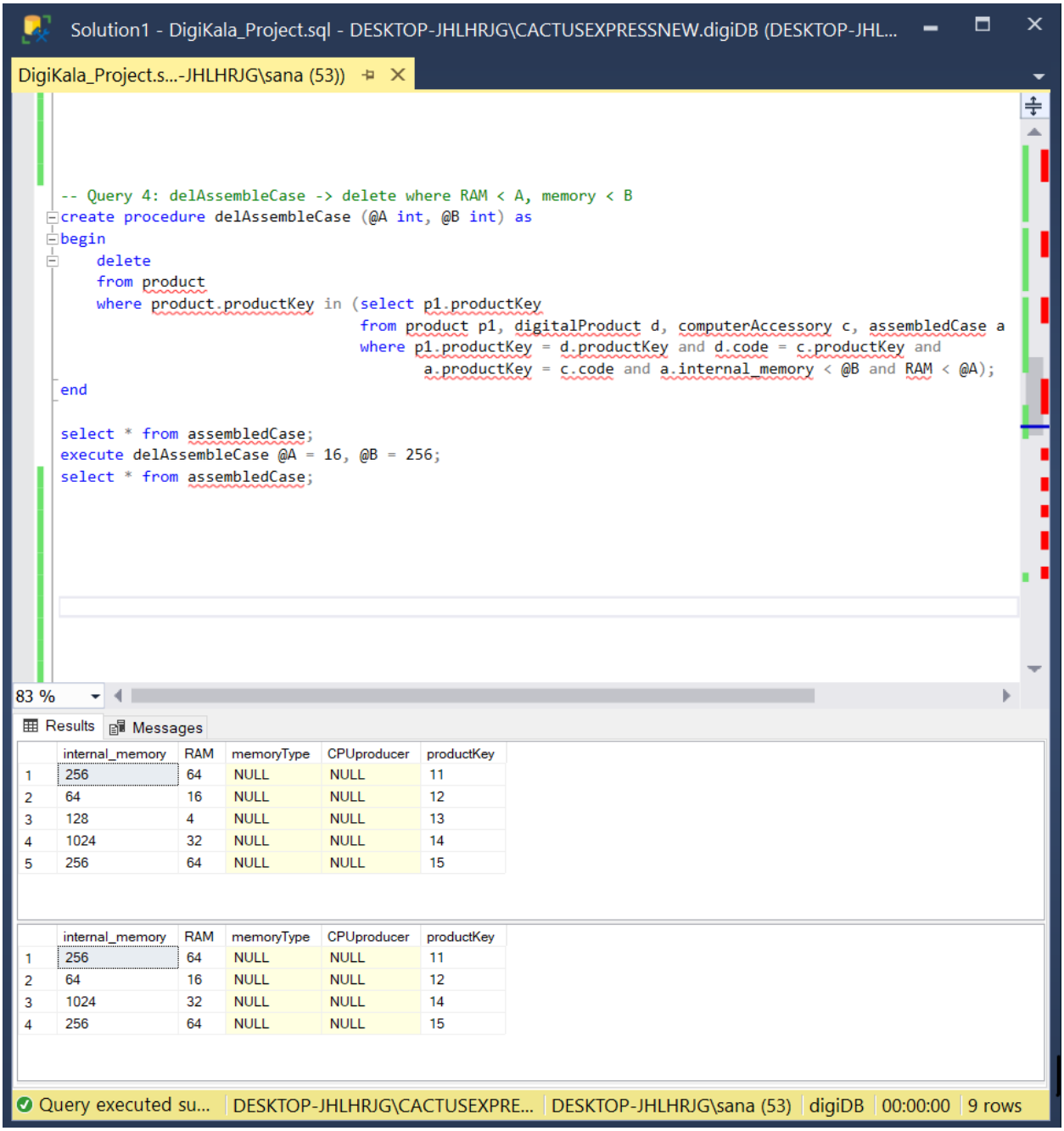
GetLaptop


Solution1 - DigiKala_Project.sql - DESKTOP-JHLHRJG\CACTUSEXPRESSNEW.digiDB (DESKTOP-JHL...
DigiKala_Project.s...-JHLHRJG\sana (53))
-- Query 2: GetLaptop -> ASUS or lenovo, graphic >= A, weight < B
create procedure GetLaptop (@A int, @B int) as
begin
select *
from product p
inner join digitalProduct d
on p.productKey = d.productKey
inner join laptop l
on d.code = l.productKey
where (p.brand = 'asus' or p.brand = 'Lenovo') and
weightValue < @B and l.graphic >= @A;
end
execute GetLaptop @A = 2, @B = 2;
100 %
Results
Messages
productKey productName price instant_delivery seller brand available numOfView numOfSales score promotion_status outstanding_offe
1 21 laptop 10000 NULL NULL asus 97 NULL 100 NULL 2 1
Query executed su... DESKTOP-JHLHRJG\CACTUSEXPRE... DESKTOP-JHLHRJG\sana (53) digiDB 00:00:00 1 rows

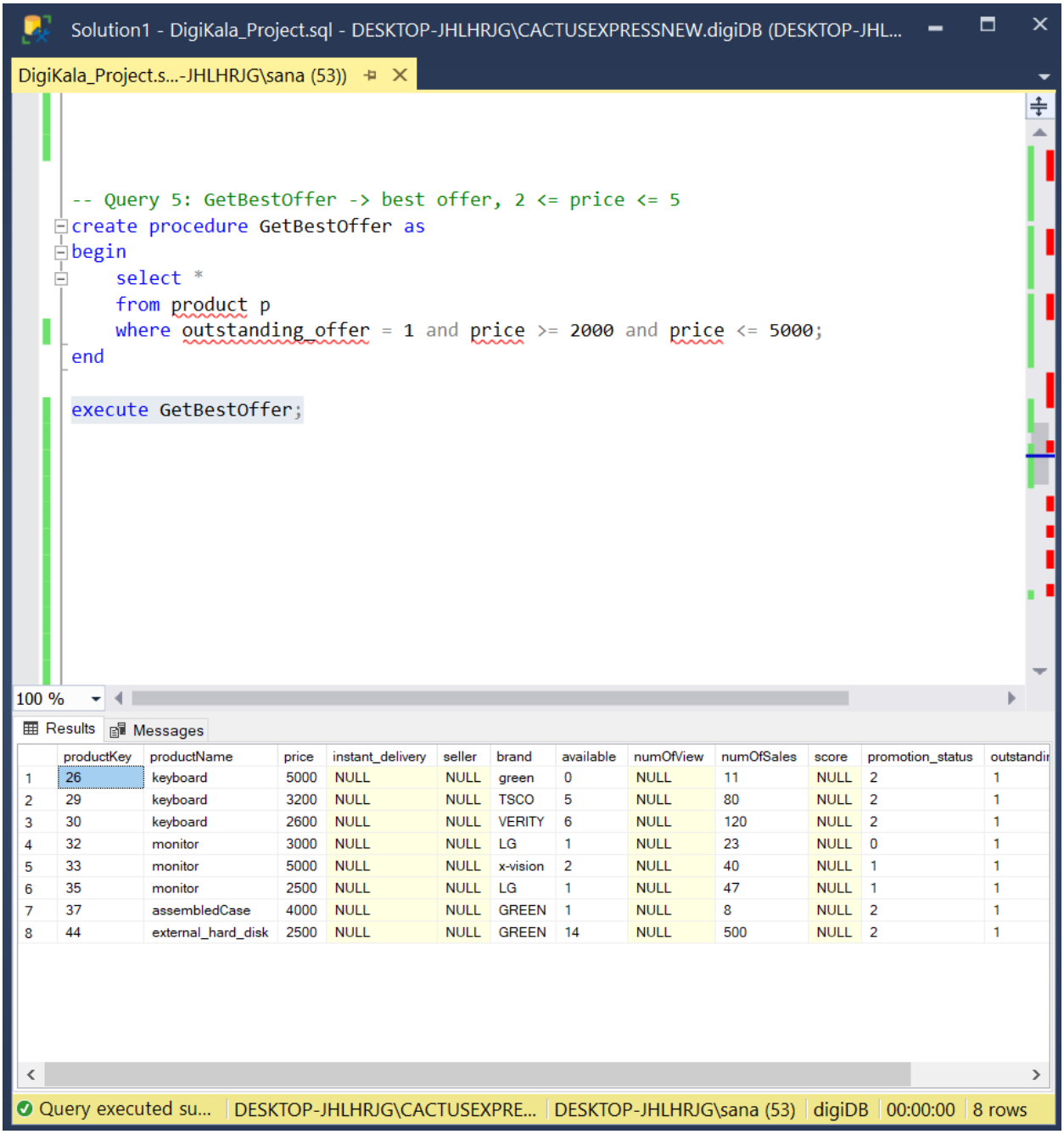
GetSortByPrice



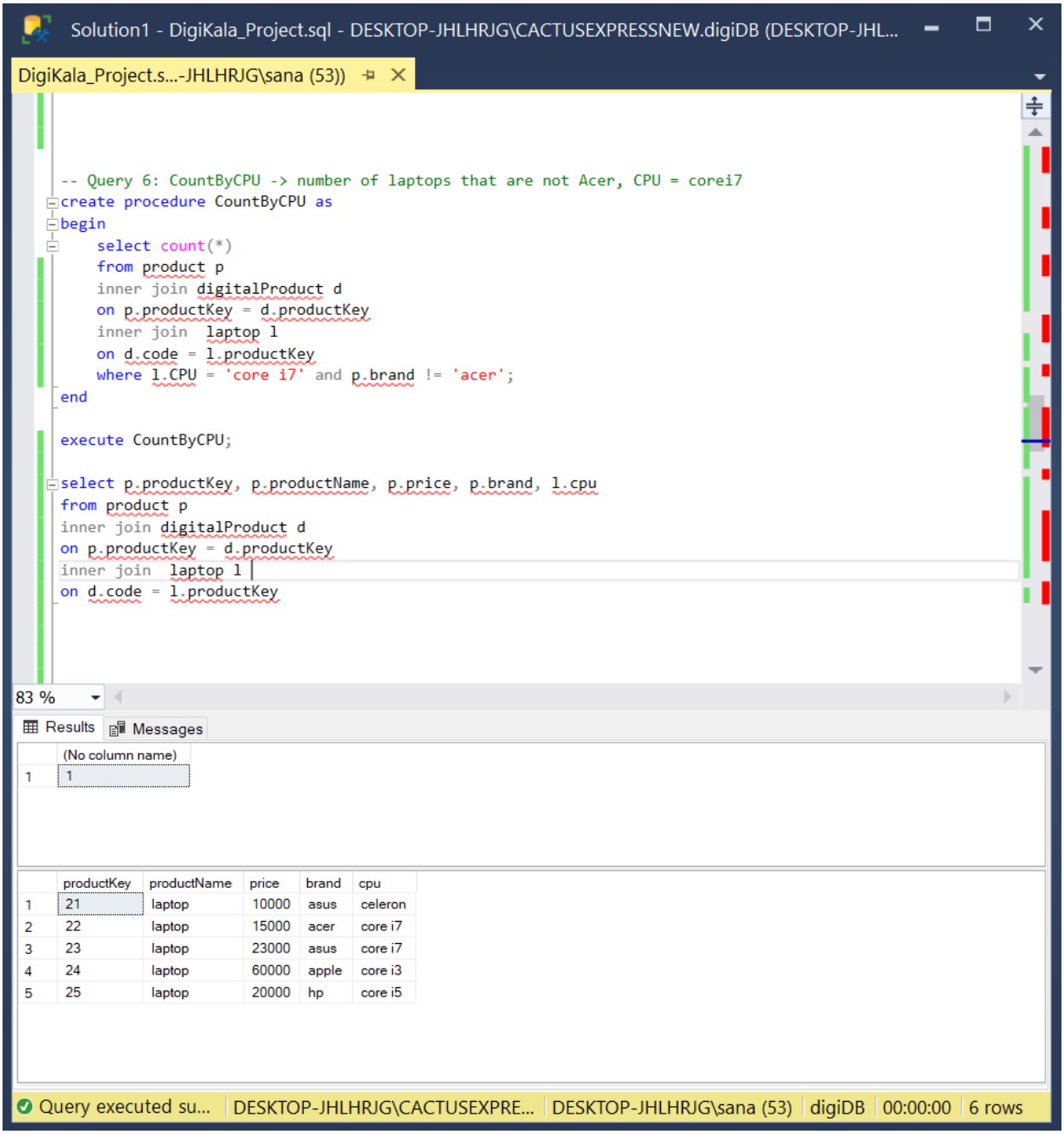
delAssembleCase



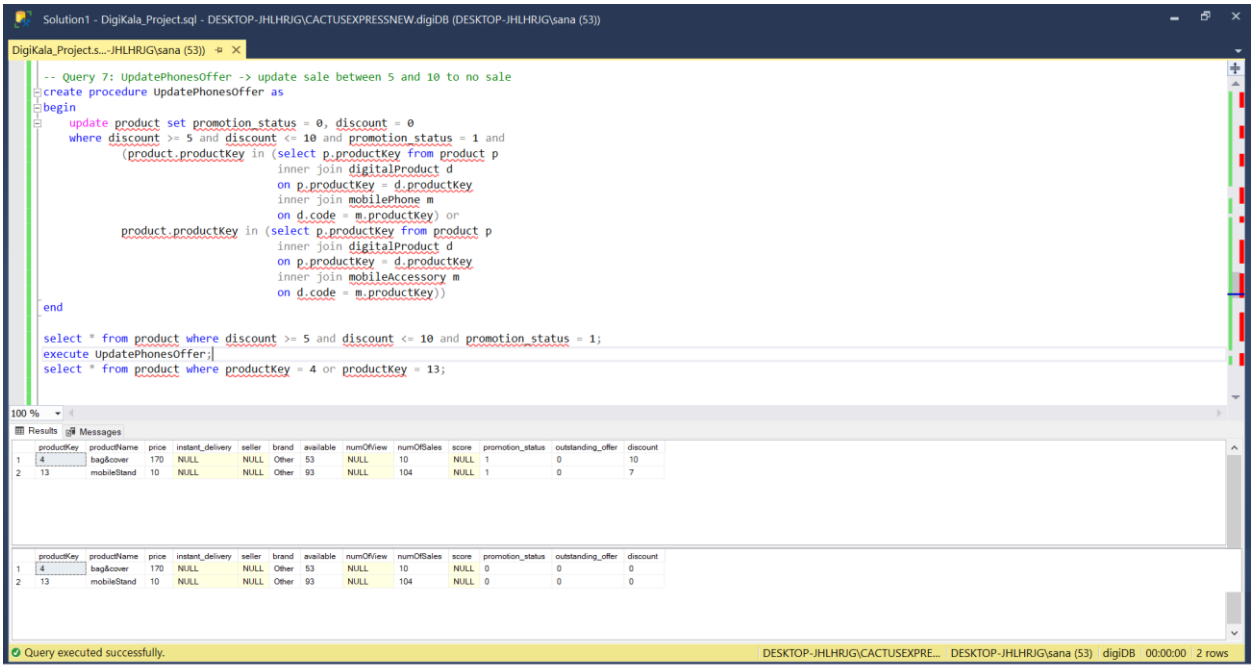
GetBestOffer



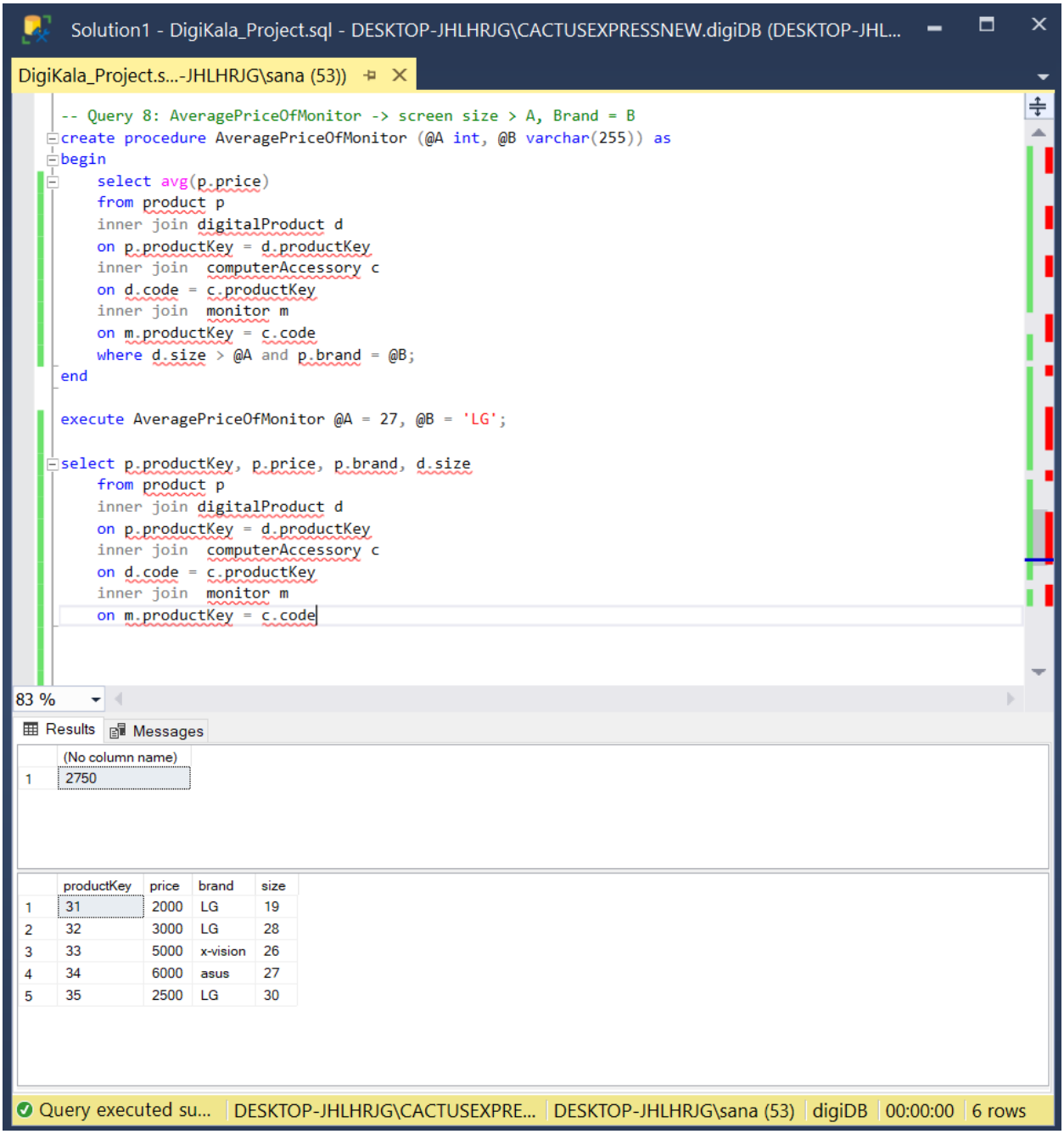
CountByCpu


Solution1 - DigiKala_Project.sql - DESKTOP-JHLHRJG\CACTUSEXPRESSNEW.digiDB (DESKTOP-JHL...
DigiKala_Project.s...-JHLHRJG\sana (53))
-- Query 6: CountByCPU -> number of laptops that are not Acer, CPU = corei7
create procedure CountByCPU as
begin
select count(*)
from product p
inner join digitalProduct d
on p.productKey = d.productKey
inner join laptop l
on d.code = l.productKey
where l.CPU = 'core i7' and p.brand != 'acer';
end
execute CountByCPU;
select p.productKey, p.productName, p.price, p.brand, l.cpu
from product p
inner join digitalProduct d
on p.productKey = d.productKey
inner join laptop l
on d.code = l.productKey
83 %
Results
Messages
(No column name)
1 1
productKey productName price brand cpu
1 21 laptop 10000 asus celeron
2 22 laptop 15000 acer core i7
3 23 laptop 23000 asus core i7
4 24 laptop 60000 apple core i3
5 25 laptop 20000 hp core i5
Query executed su... DESKTOP-JHLHRJG\CACTUSEXPRE... DESKTOP-JHLHRJG\sana (53) digiDB 00:00:00 6 rows

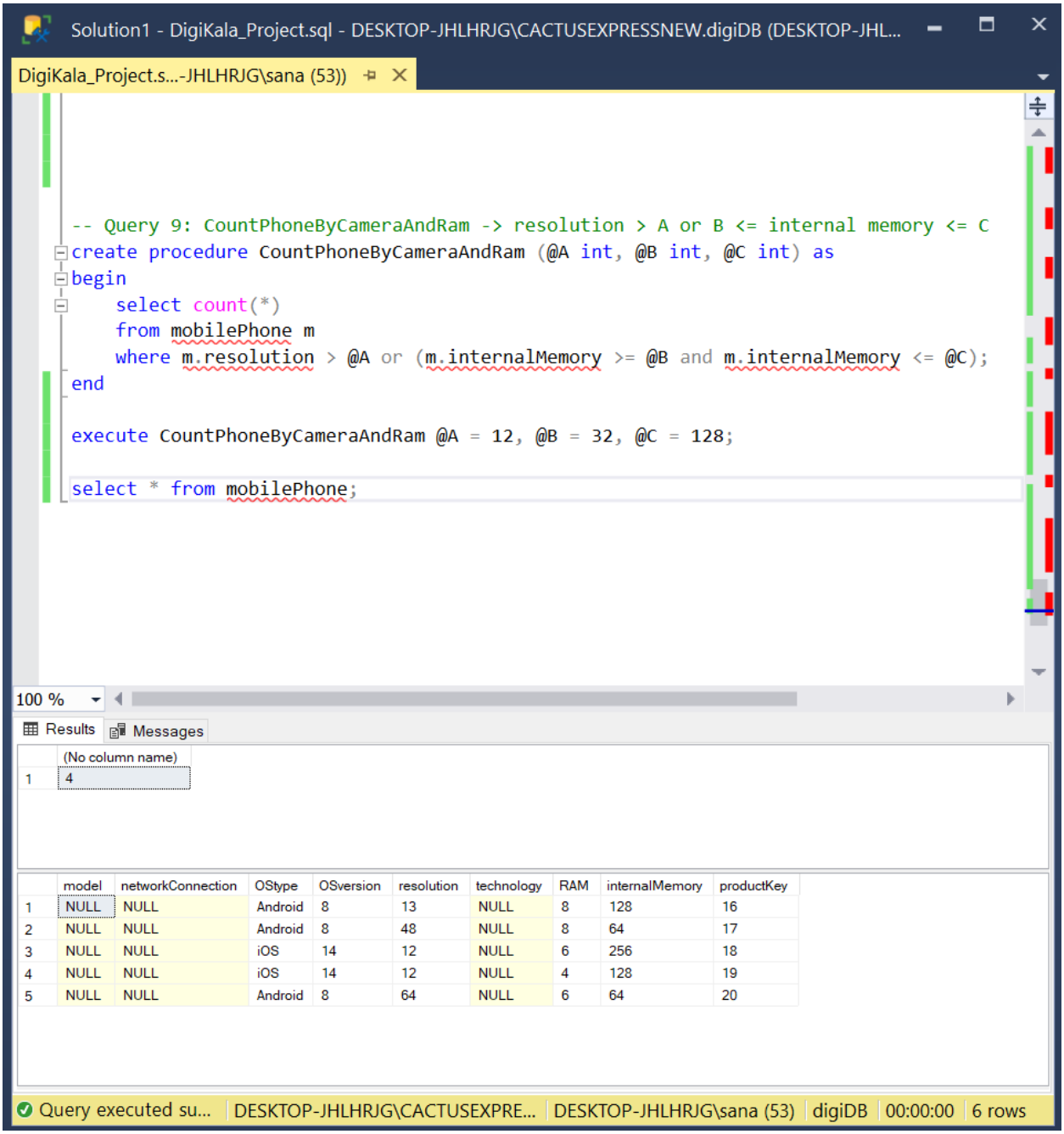
UpdatePhonesOffer



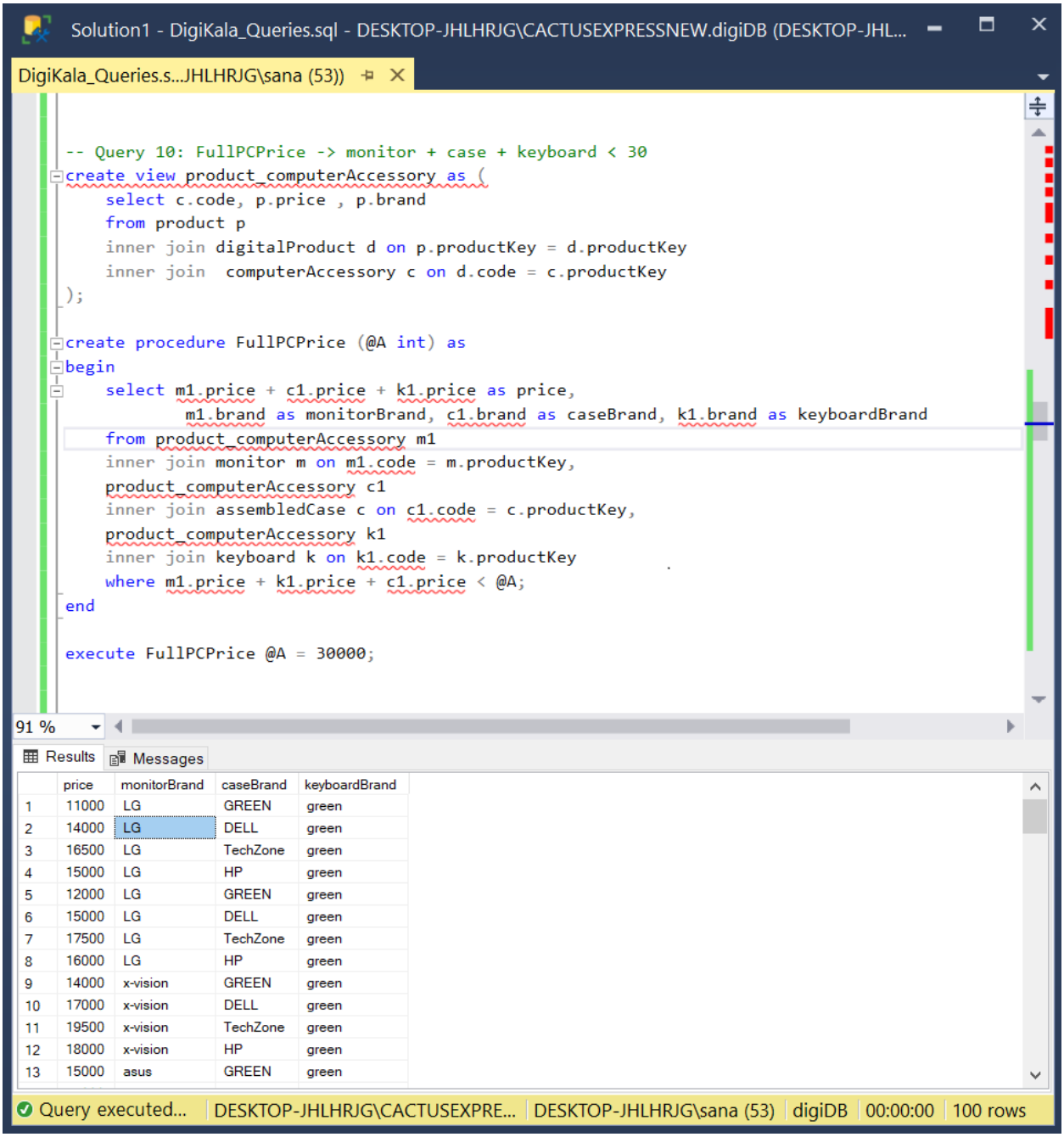
AveragePriceOfMonitor



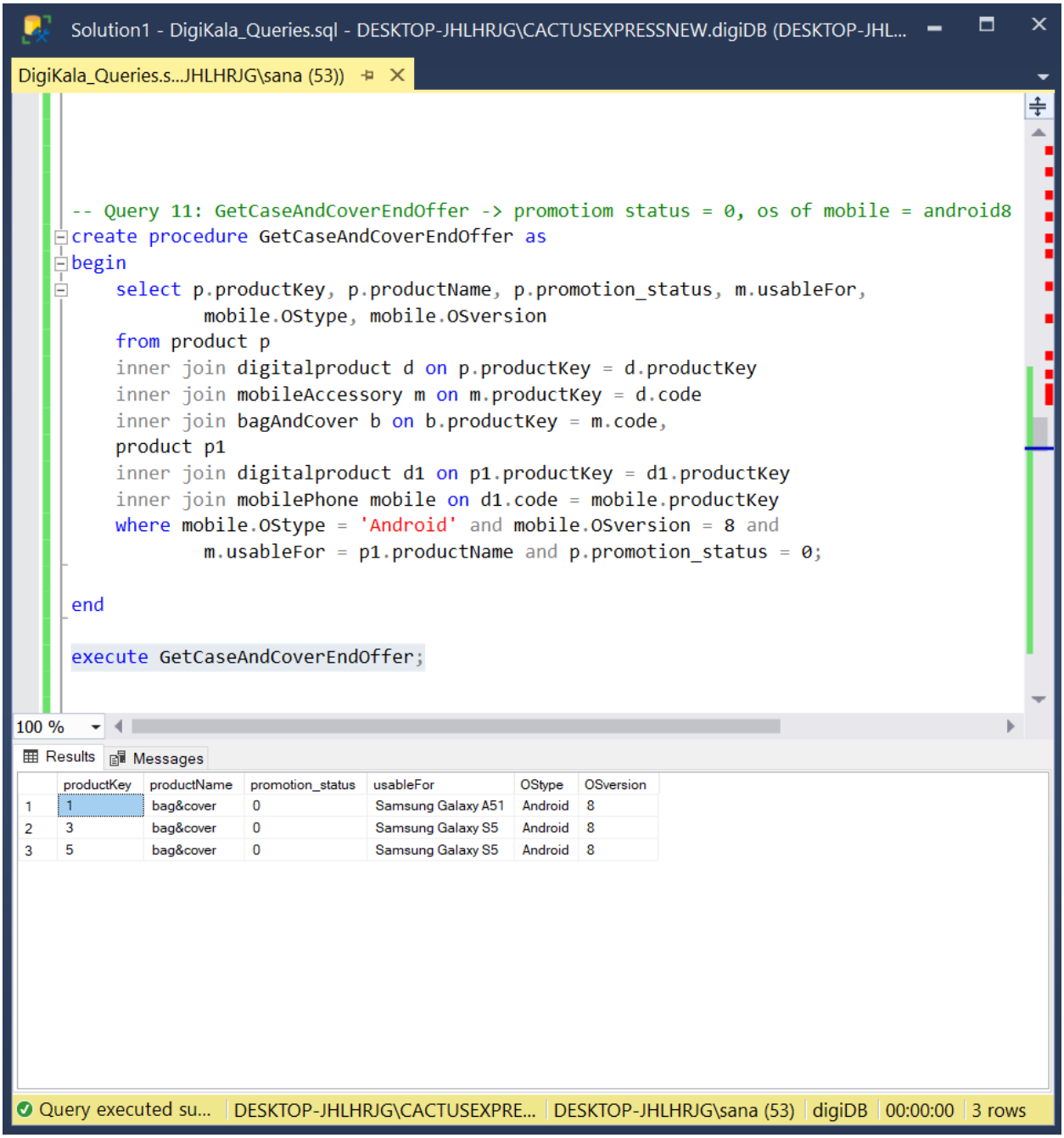
CountPhoneByCameraAndRam



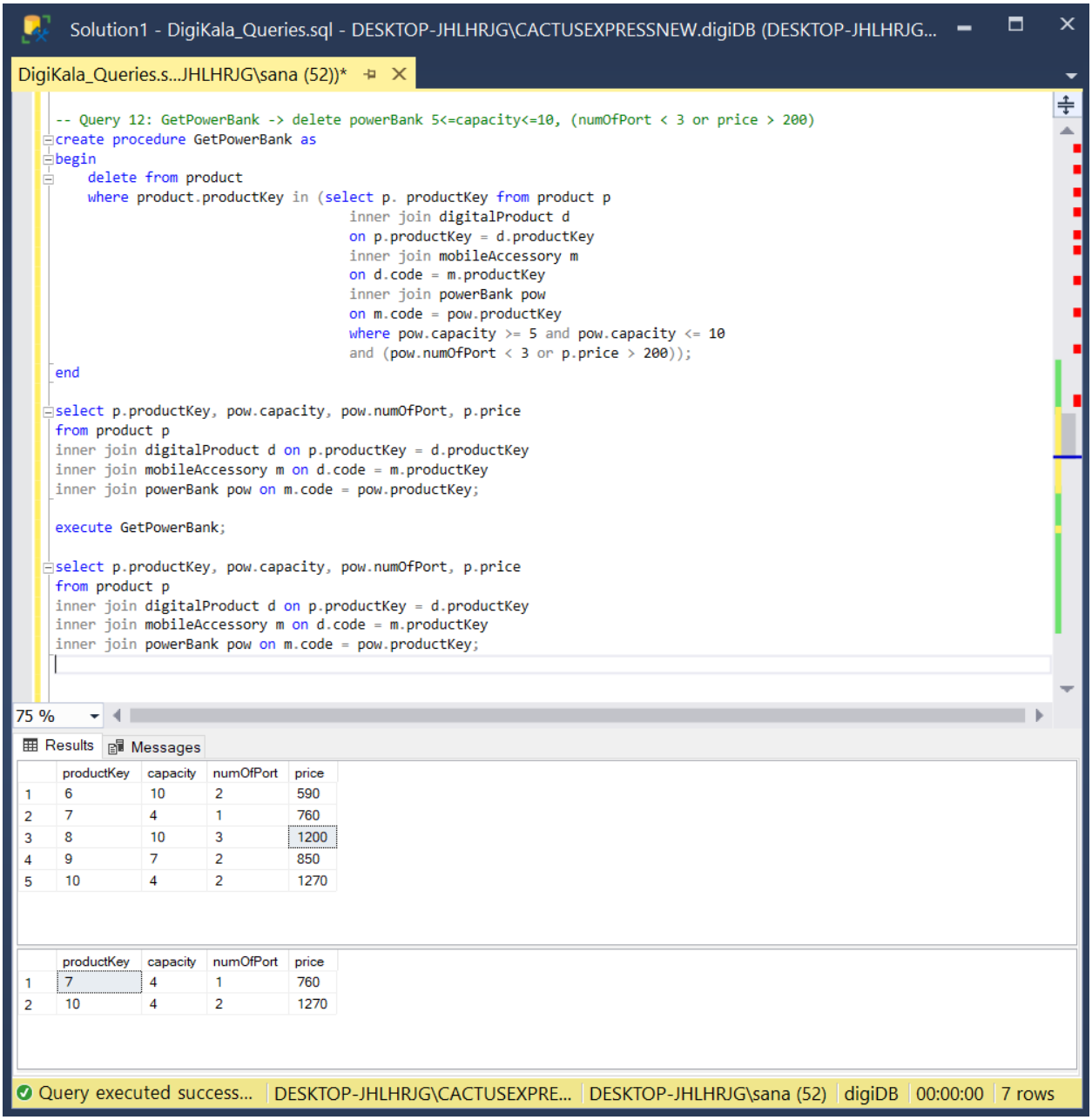
FullPcPrice



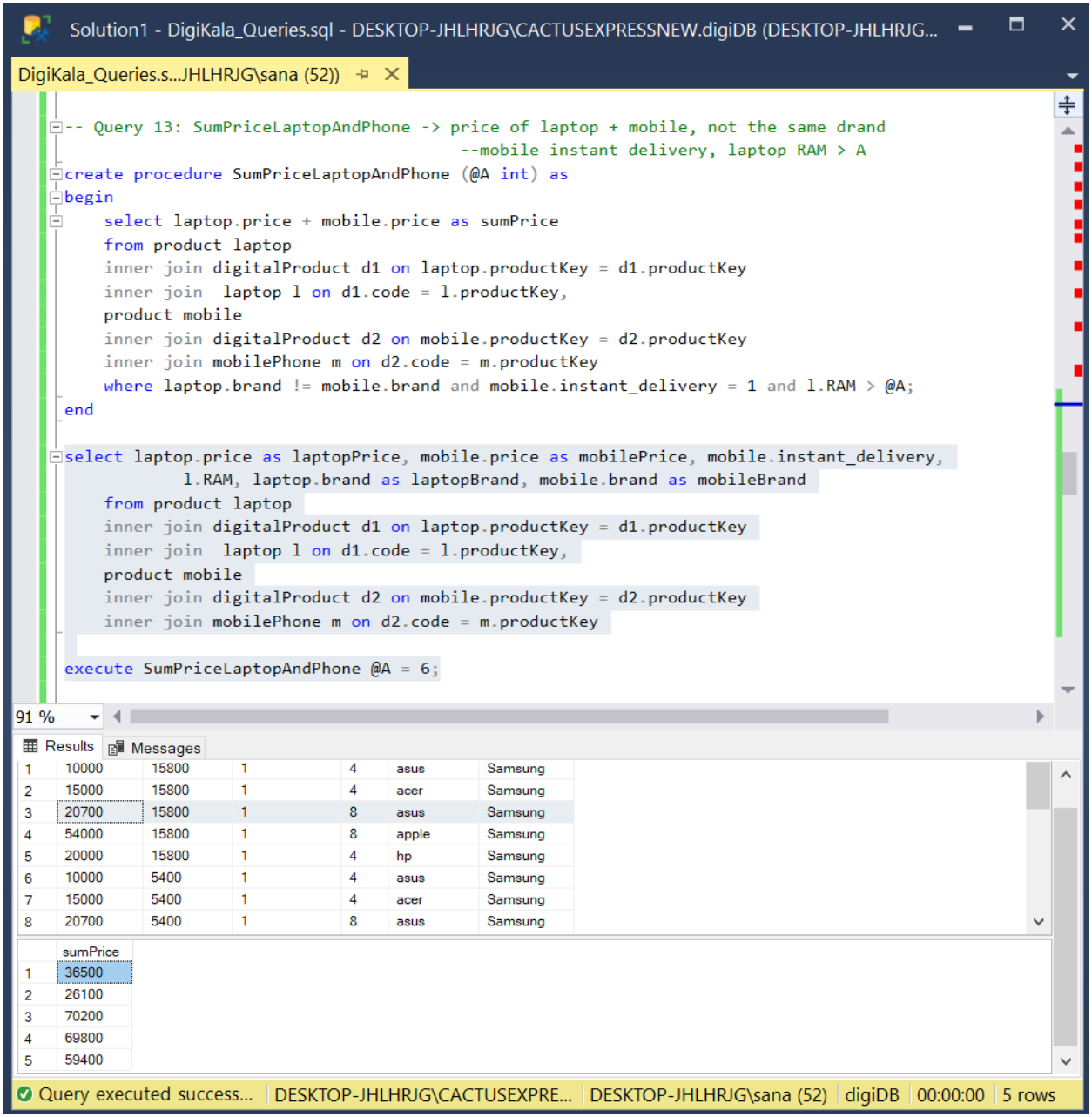
GetCaseAndCoverEndOffer



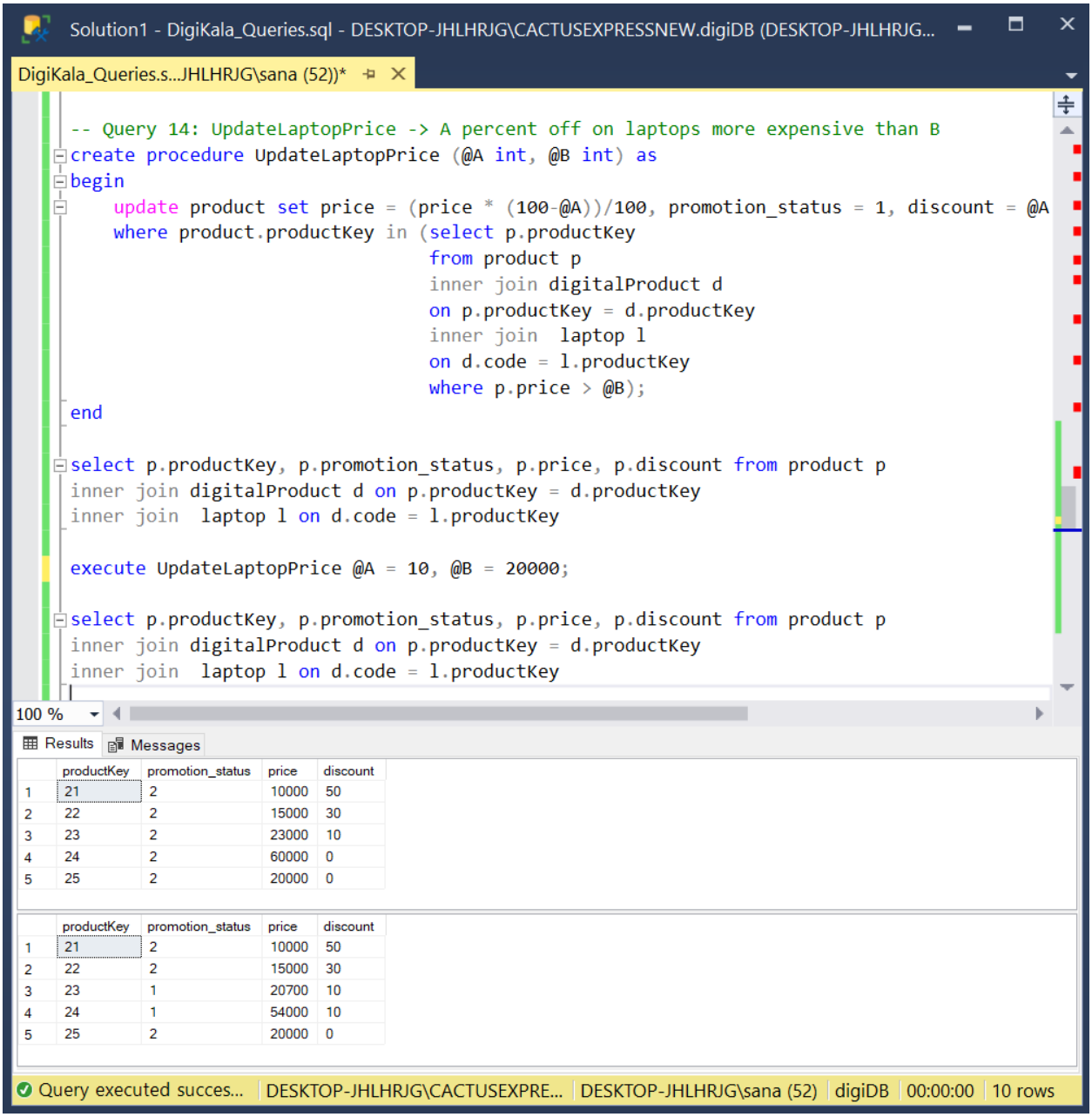
GetPowerBank



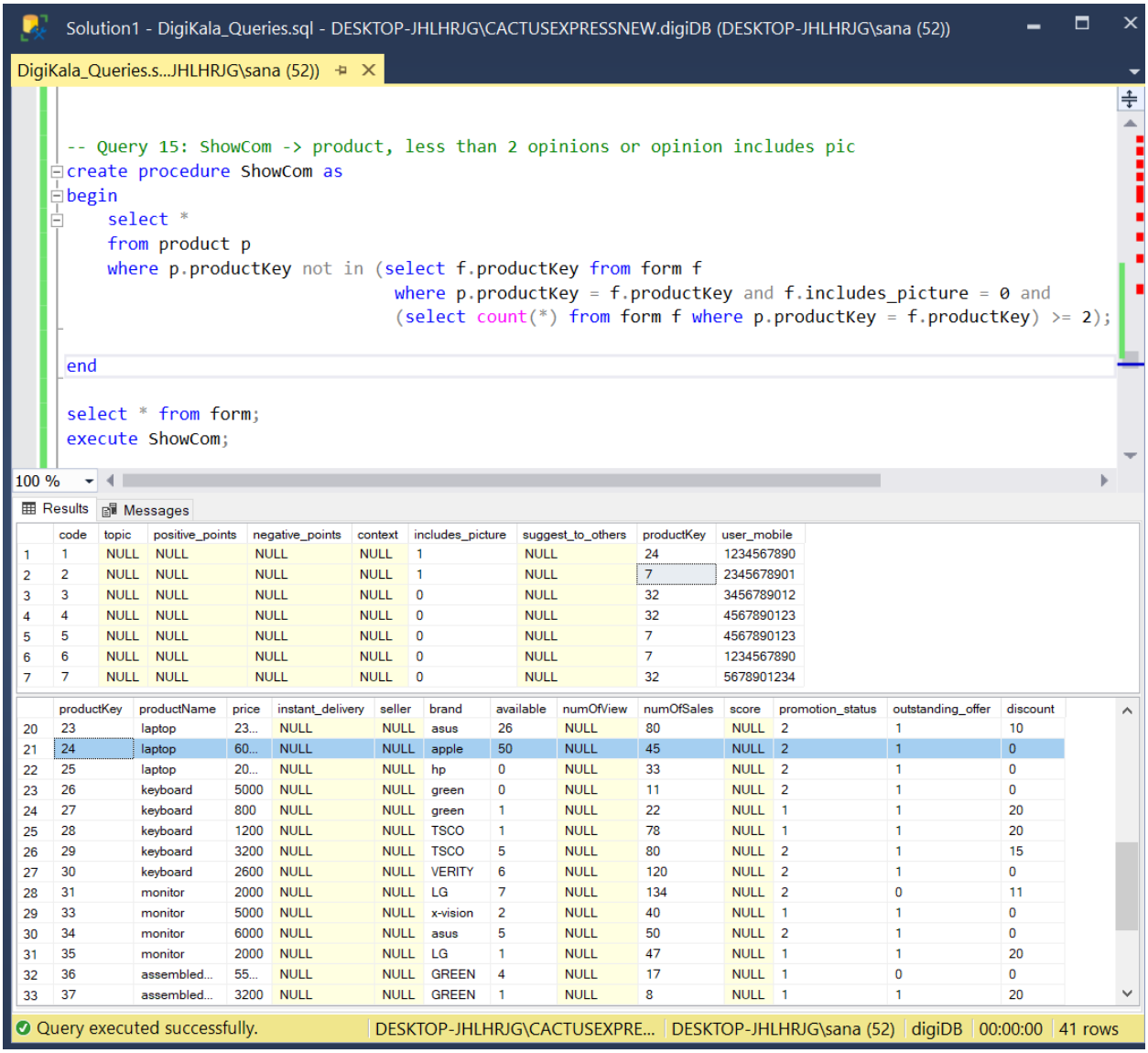
SumPriceLaptopAndPhone



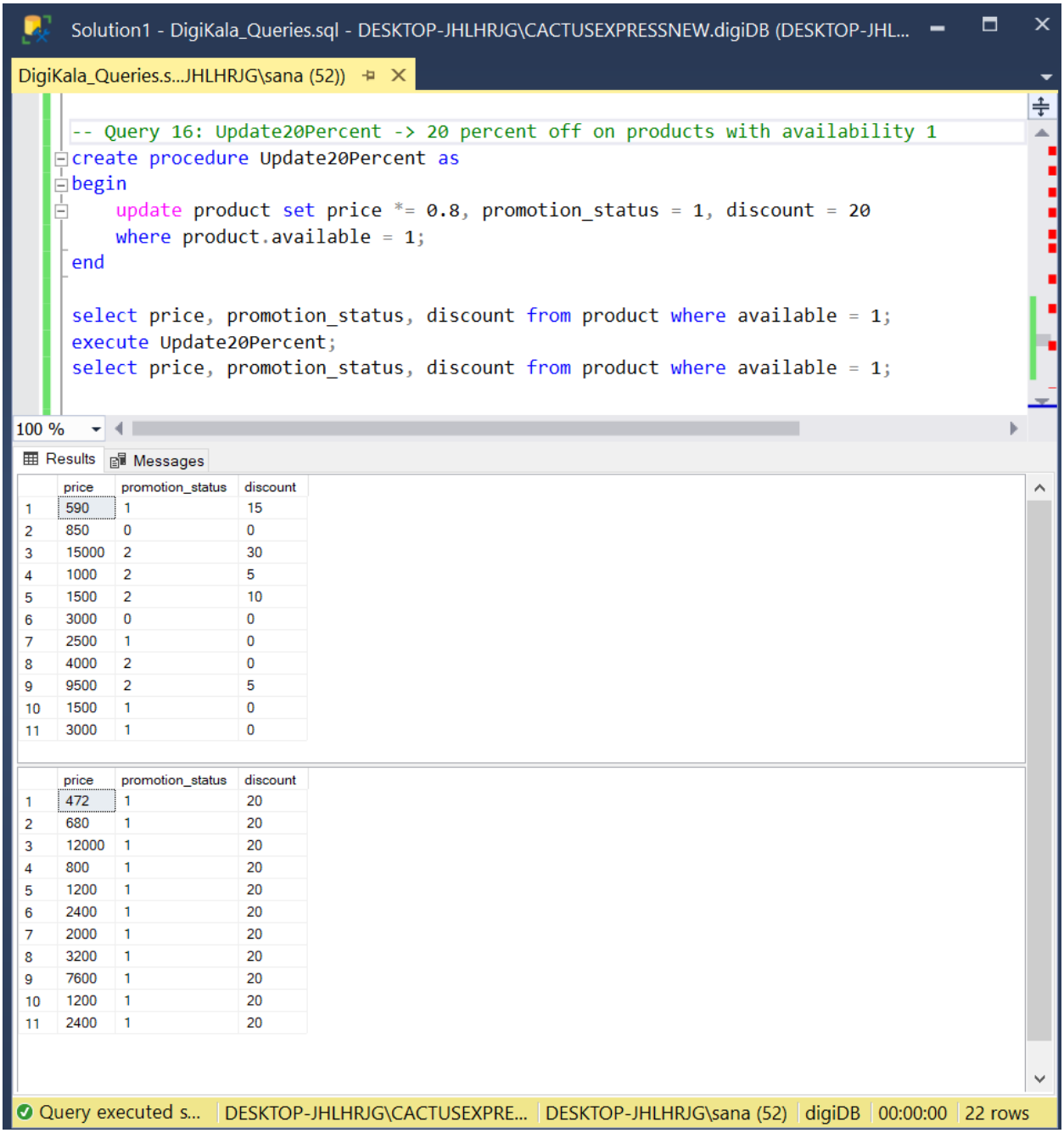
UpdateLaptopPrice



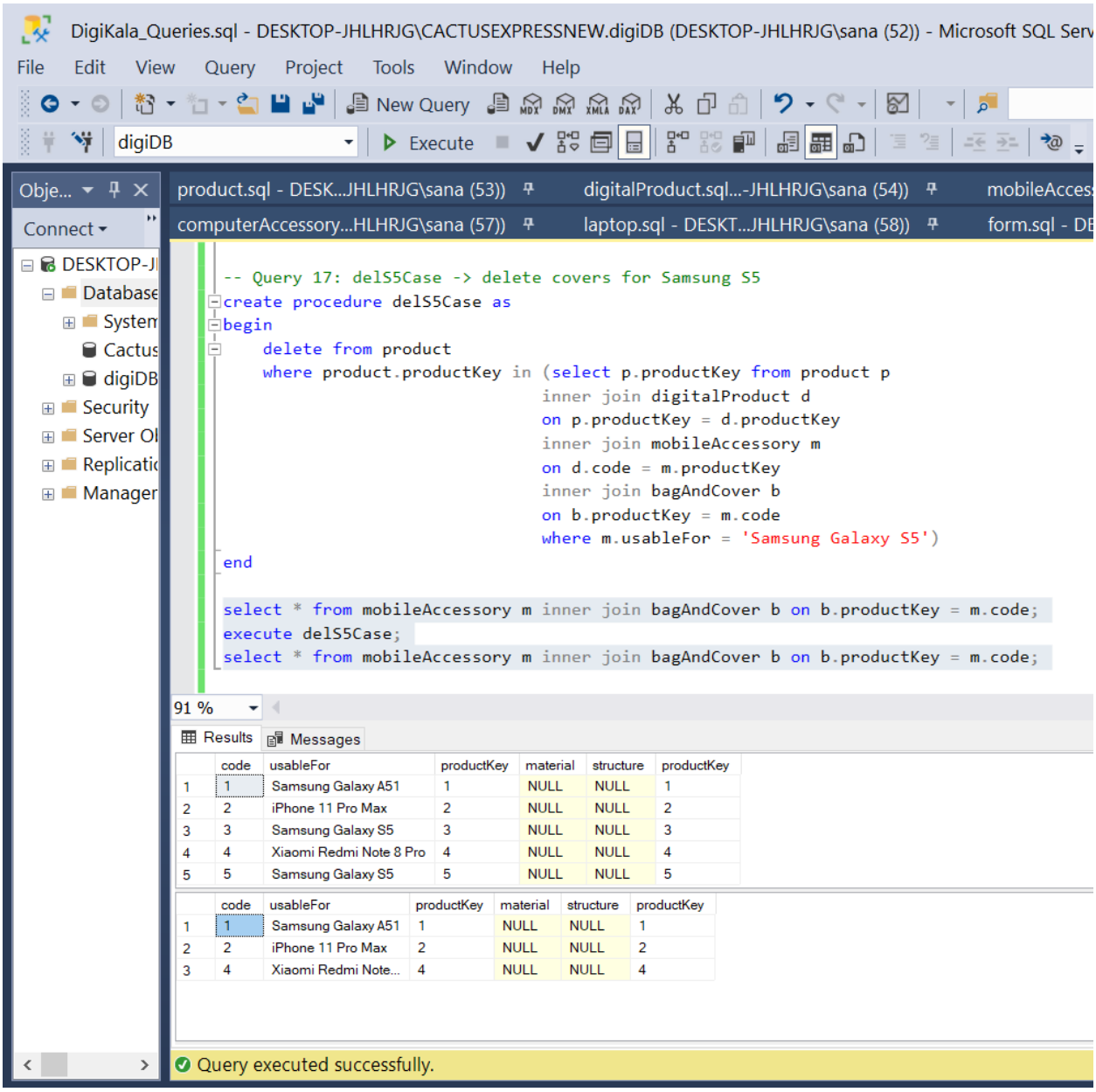
ShowCom


Solution1 - DigiKala_Queries.sql - DESKTOP-JHLHRJG\CACTUSEXPRESSNEW.digiDB (DESKTOP-JHLHRJG\sana (52))
DigiKala_Queries.s...JHLHRJG\sana (52))
-- Query 15: ShowCom -> product, less than 2 opinions or opinion includes pic
create procedure ShowCom as
begin
select *
from product p
where p.productKey not in (select f.productKey from form f
where p.productKey = f.productKey and f.includes_picture = 0 and
(select count(*) from form f where p.productKey = f.productKey) >= 2);
end
select * from form;
execute ShowCom;
100 %
Results
Messages
code topic positive_points negative_points context includes_picture suggest_to_others productKey user_mobile
1 1 NULL NULL NULL NULL 1 NULL 24 1234567890
2 2 NULL NULL NULL NULL 1 NULL 7 2345678901
3 3 NULL NULL NULL NULL 0 NULL 32 3456789012
4 4 NULL NULL NULL NULL 0 NULL 32 4567890123
5 5 NULL NULL NULL NULL 0 NULL 7 4567890123
6 6 NULL NULL NULL NULL 0 NULL 7 1234567890
7 7 NULL NULL NULL NULL 0 NULL 32 5678901234
productKey productName price instant_delivery seller brand available numOfView numOfSales score promotion_status outstanding_offer discount
20 23 laptop 23... NULL NULL asus 26 NULL 80 NULL 2 1 10
21 24 laptop 60... NULL NULL apple 50 NULL 45 NULL 2 1 0
22 25 laptop 20... NULL NULL hp 0 NULL 33 NULL 2 1 0
23 26 keyboard 5000 NULL NULL green 0 NULL 11 NULL 2 1 0
24 27 keyboard 800 NULL NULL green 1 NULL 22 NULL 1 1 20
25 28 keyboard 1200 NULL NULL TSCO 1 NULL 78 NULL 1 1 20
26 29 keyboard 3200 NULL NULL TSCO 5 NULL 80 NULL 2 1 15
27 30 keyboard 2600 NULL NULL VERITY 6 NULL 120 NULL 2 1 0
28 31 monitor 2000 NULL NULL LG 7 NULL 134 NULL 2 0 11
29 33 monitor 5000 NULL NULL x-vision 2 NULL 40 NULL 1 1 0
30 34 monitor 6000 NULL NULL asus 5 NULL 50 NULL 2 1 0
31 35 monitor 2000 NULL NULL LG 1 NULL 47 NULL 1 1 20
32 36 assembled... 55... NULL NULL GREEN 4 NULL 17 NULL 1 0 0
33 37 assembled... 3200 NULL NULL GREEN 1 NULL 8 NULL 1 1 20
Query executed successfully.
DESKTOP-JHLHRJG\CACTUSEXPRE...
DESKTOP-JHLHRJG\sana (52)
digiDB
00:00:00
41 rows

Update20Percent



delS5Case


DigiKala_Queries.sql - DESKTOP-JHLHRJG\CACTUSEXPRESSNEW.digiDB (DESKTOP-JHLHRJG\sana (52)) - Microsoft SQL Serv
File Edit View Query Project Tools Window Help
New Query
digiDB
Execute
product.sql - DESK...JHLHRJG\sana (53))
digitalProduct.sql...-JHLHRJG\sana (54))
computerAccessory...HLHRJG\sana (57))
laptop.sql - DESKT...JHLHRJG\sana (58))
Connect
DESKTOP-J
Database
Security
Server Ol
Replicati
Manager
-- Query 17: delS5Case -> delete covers for Samsung S5
create procedure delS5Case as
begin
delete from product
where product.productKey in (select p.productKey from product p
inner join digitalProduct d
on p.productKey = d.productKey
inner join mobileAccessory m
on d.code = m.productKey
inner join bagAndCover b
on b.productKey = m.code
where m.usableFor = 'Samsung Galaxy S5')
end
select * from mobileAccessory m inner join bagAndCover b on b.productKey = m.code;
execute delS5Case;
select * from mobileAccessory m inner join bagAndCover b on b.productKey = m.code;
91 %
Results
Messages
code usableFor productKey material structure productKey
1 1 Samsung Galaxy A51 1 NULL NULL 1
2 2 iPhone 11 Pro Max 2 NULL NULL 2
3 3 Samsung Galaxy S5 3 NULL NULL 3
4 4 Xiaomi Redmi Note 8 Pro 4 NULL NULL 4
5 5 Samsung Galaxy S5 5 NULL NULL 5
code usableFor productKey material structure productKey
1 1 Samsung Galaxy A51 1 NULL NULL 1
2 2 iPhone 11 Pro Max 2 NULL NULL 2
3 4 Xiaomi Redmi Note... 4 NULL NULL 4
Query executed successfully.