```
-------------------------- LEVEL 1 -------------------------
----------------------- TASK 1 -----------------------

use EXAM;

select COUNT(ORDER_NUM) [Количество заказов], AVG(AMOUNT)
[Средняя цена заказов:]
from ORDERS

SELECT CUST [Покупатель],
                COUNT(ORDER_NUM) [Количество заказов],
                AVG(AMOUNT) [Средняя цена заказов:]
from ORDERS
group by CUST
ORDER BY AVG(AMOUNT)

----------------------- TASK 2 -----------------------

use EXAM;

select REP [Сотрудник],  NAME [Имя сотрудника], AMOUNT
[Количество]
from ORDERS join SALESREPS
on ORDERS.REP = SALESREPS.EMPL_NUM
where AMOUNT >= 15000
ORDER BY AMOUNT

----------------------- TASK 3 -----------------------

use EXAM;

select MFR_ID [Производитель], SUM(QTY_ON_HAND) [Количество
товаров], AVG(PRICE) [Средняя цена]
from PRODUCTS
group by MFR_ID

----------------------- TASK 4 -----------------------

use EXAM;

select COMPANY, CUST
```

```
from CUSTOMERS left outer join ORDERS
on CUSTOMERS.CUST_NUM = ORDERS.CUST
where CUST is null
group by  COMPANY, CUST

------------------------ TASK 5 ------------------------

use EXAM;

select ORDER_NUM [Номер заказа], NAME [Имя менеджера,
оформившего заказ], REGION [Регион менеджера]
from ORDERS inner join SALESREPS
on ORDERS.REP = SALESREPS.EMPL_NUM
                              inner join OFFICES
on SALESREPS.REP_OFFICE = OFFICES.OFFICE
where REGION like ('east%')
group by ORDER_NUM, NAME, REGION

--------------------------- LEVEL 2 --------------------------
------------------------ TASK 1 ------------------------

use EXAM;

drop procedure Task1

go
create procedure Task1 @o int,
                                                @c varchar(15),
                                                @r varchar(10),
                                                @m int,
                                                @t decimal(9,2),
                                                @s decimal(9,2)
as declare @rs int = 1
begin
    begin try
        insert into OFFICES(OFFICE, CITY, REGION, MGR,
TARGET, SALES)
                                    values (@o, @c, @r, @m, @t,
@s);
        return @rs;
    end try
```

```
     begin catch
          if ERROR_PROCEDURE() is not null
          print error_message();
          print ('Ошибка! Строка не вставилась.');
          return -1;
     end catch
end
go

declare @rss int
exec @rss = Task1 @o = '24', @c = 'Gomel', @r = 'Eastern', @m
= 106,  @t = 64531, @s=123456
print cast(@rss as varchar(3));

select * from OFFICES;

----------------------- TASK 2 -----------------------

use EXAM;

go
create function Task2 (@number varchar(35)) returns int
as
begin declare @result int = 1
     set @result = (select COUNT(*)
                                  from ORDERS
                                  where CUST = @number)
          if @result = 0
          set @result = -1
          return @result
end
go

select CUST, dbo.Task2(CUST) from ORDERS

declare @res int = dbo.Task2(2114);
print ('Количество заказов = ') + cast(@res as varchar(3));

----------------------- TASK 3 -----------------------

use EXAM;
```

```
go
create function Task3(@cost decimal(9,2)) returns int
as
begin
     declare @result int = 1
     set @result = (select count(*)
                                  from SALESREPS inner join
ORDERS
                                  on EMPL_NUM = REP
                                  where AMOUNT > @cost);
     return @result;
end
go

declare @res int = dbo.Task3(31000);
print ('Количество сотрудников, у которых есть заказ
стоимостью выше указанного параметра:') + cast(@res as
varchar);

----------------------- TASK 4 -----------------------

use EXAM;

drop procedure Task4;

go
create procedure Task4 @code varchar(5)
as declare @result int = 1
begin
          set @result = (select COUNT(*) from PRODUCTS where
MFR_ID = @code)
               if @result = 0
               set @result = -1
          print @result
          return @result
end
go

declare @res int
exec @res = Task4 @code = 2435;
```

```
---------------------- TASK 5 ----------------------

use EXAM;

drop procedure Task5

go
create procedure Task5 @name varchar(35), @period1 date,
@period2 date
as declare @result int = 1
     begin
          set @result = (
                                        select count(*)
                                        from ORDERS inner join
CUSTOMERS
                                        on ORDERS.CUST =
CUSTOMERS.CUST_NUM
                                        where ORDER_DATE between
@period1 and @period2
                                        AND
                                        COMPANY like (@name)
                                       )
               select COMPANY, ORDER_DATE
               from ORDERS inner join CUSTOMERS
               on ORDERS.CUST = CUSTOMERS.CUST_NUM
               where ORDER_DATE between @period1 and @period2
               AND
               COMPANY like (@name)
          if @result = 0
          set @result = -1
          print @result
          return @result
     end
go

declare @res int
exec @res = Task5 @name = 'Jones Mfg.', @period1 =
'01.02.2007', @period2 = '01.02.2008';
```