

Биткин Н.С., гр. 751001.

Лабораторная №6, Вариант 3.

The screenshot displays the SQL Server Enterprise Manager interface. On the left, the 'Object Explorer' pane shows the 'AdventureWorks' database structure, with the 'HumanResources' folder expanded and 'uspUpdateEmployeePersonalInfo' selected. The central pane shows a SQL query script for a stored procedure named 'uspGetMedianPriceByCategory'. The query uses a PIVOT operator to calculate the median price for various product categories. The bottom pane shows the results of the query execution, displaying a table with 20 rows and 4 columns: Name, H, L, and M. The status bar at the bottom indicates 'Query executed successfully' and '37 rows'.

```
CREATE PROCEDURE [Production].[uspGetMedianPriceByCategory] (@ProductClasses NVARCHAR(100)) AS
BEGIN
    DECLARE @query NVARCHAR(4000) = '
    SELECT (Name), ' + @ProductClasses + '
    FROM (
        SELECT [ListPrice],
               [Class],
               [PSC].[Name]
        FROM [Production].[Product] [P]
        JOIN [Production].[ProductSubcategory] [PSC]
        ON [P].[ProductSubcategoryID] = [PSC].[ProductSubcategoryID]
    ) AS [temp]
    PIVOT (AVG([ListPrice]) FOR [temp].[Class] IN (' + @ProductClasses + ')) AS [pivot]';

    EXECUTE sp_executesql @query;
END;

EXECUTE [Production].[uspGetMedianPriceByCategory] 'H,L,M';
```

Name	H	L	M
1 Mountain Bikes	2524.6320	552.49	924.74
2 Road Bikes	2879.8576	722.24	1406.8820
3 Touring Bikes	2384.07	742.35	1214.85
4 Handbikes	110.7033	45.0566	61.32
5 Bottom Brackets	121.49	53.99	101.24
6 Brakes	NULL	NULL	NULL
7 Chains	NULL	NULL	NULL
8 Cranksets	404.99	175.49	296.49
9 Derailleurs	NULL	NULL	NULL
10 Forks	229.49	148.22	175.49
11 Headsets	124.73	34.20	102.29
12 Mountain Frames	1357.09	296.92	396.425
13 Pedals	80.99	40.49	62.09
14 Road Frames	1431.50	337.22	594.83
15 Saddles	52.64	27.12	39.14
16 Touring Frames	1003.91	333.42	NULL
17 Wheels	320.6375	86.655	242.205
18 Bib Shorts	NULL	NULL	NULL
19 Caps	NULL	NULL	NULL
20 Gloves	NULL	NULL	NULL