

IT 340

Assignment 3

100 Points

Deadline: April 8, 11 pm

Instructions:

Using the AdventureWorks database in SQL Server, complete the following SQL queries (10 points each). Use the screenshot for additional guidance.

Submit the Word document in D2L. Name your document as *Assignment3_IT340_YourLastName.docx*. Your document should contain the SQL queries and respective screenshots for your output. 5 points will be deducted if you fail to follow the submission instructions.

- 1) Write a query that groups the SalesOrderDetail table by product ID and includes only those groups of products that have orders totaling more than \$1,000,000 and whose average order quantities are less than 3.

	ProductID	AverageQuantity	Total
1	779	2	3693678.025272
2	793	2	2516857.314918
3	750	1	1340419.942000
4	773	2	1217210.359959
5	782	2	4400592.800400
6	753	1	1847818.628000
7	796	1	1506377.632500
8	776	2	1254722.732292
9	954	2	1426372.869324
10	771	2	1291868.700375

- 2) Retrieve the products that have had total sales greater than \$2,000,000 in the Sales.SalesOrderDetail table.

	ProductID	Total
1	779	3693678.025272
2	793	2516857.314918
3	782	4400592.800400
4	780	3438478.860423
5	794	2347655.953454
6	783	4009494.761841
7	795	2012447.775000
8	781	3434256.941928
9	784	3309673.216908

- 3) Modify the query for question 2 to make sure there are at least one thousand five hundred items involved in the calculations for each product.

	ProductID	Total
1	922	9480.240000
2	871	20229.750000
3	708	160869.517836
4	711	165406.617049
5	712	51229.445623
6	878	46619.580000
7	872	15390.880000
8	921	15444.050000
9	873	8232.597632
10	707	157772.394392
11	715	198754.975360
12	870	28654.163327

- 4) Find all phone numbers in the Person.PhoneNumber table that have area code 415.

	PhoneNumber
1	415-555-0114
2	415-555-0115
3	415-555-0121
4	415-555-0123
5	415-555-0124
6	415-555-0131
7	415-555-0138
8	415-555-0147
9	415-555-0170
10	415-555-0174
11	415-555-0197

- 5) Find all phone numbers in the Person.PhoneNumber table that have area code other than 415.

	PhoneNumber
1	1 (11) 500 555-0110
2	1 (11) 500 555-0110
3	1 (11) 500 555-0110
4	1 (11) 500 555-0110
5	1 (11) 500 555-0110
6	1 (11) 500 555-0110
7	1 (11) 500 555-0110
8	1 (11) 500 555-0110
9	1 (11) 500 555-0110
10	1 (11) 500 555-0110
11	1 (11) 500 555-0110

- 6) Return all products whose list price is between \$15 and \$25 in the Production.Product table.

	ProductID	Name
1	843	Cable Lock
2	844	Minipump
3	845	Mountain Pump
4	858	Half-Finger Gloves, S
5	859	Half-Finger Gloves, M
6	860	Half-Finger Gloves, L
7	878	Fender Set - Mountain
8	928	LL Mountain Tire
9	931	LL Road Tire
10	932	ML Road Tire
11	952	Chain

- 7) Using the Sales.Store table, write a query that returns only the one row in which the customer ID (BusinessEntityID) starts with the number 1 and the store name begins with Bicycle:

	BusinessEntityID	Name
1	1020	Bicycle Warehouse Inc.
2	1426	Bicycle Merchandise Warehouse
3	1858	Bicycle Lines Distributors

- 8) Write a query to group the rows in the SalesOrderDetail table by Product ID and eliminate products whose average order quantities are five or less.

	ProductID
1	862
2	863
3	864

- 9) Write a query to retrieve the employees who are also sales persons using the HumanResources.Employee and Sales.SalesPerson tables.

	BusinessEntityID
1	285
2	283
3	278
4	279
5	277
6	275
7	288
8	287
9	276
10	282
11	289
12	290
13	274

- 10) Using the Person.Person and HumanResources.Employee tables, retrieve the results as following output:

	JobTitle	Gender	VacationHours
1	Pacific Sales Manager	M	20
2	Production Technician - WC60	F	24
3	Quality Assurance Manager	M	80
4	Shipping and Receiving Supervisor	M	93
5	Production Technician - WC60	M	32
6	Database Administrator	M	67
7	European Sales Manager	F	21
8	Production Technician - WC45	M	85
9	Quality Assurance Technician	M	82
10	Facilities Manager	M	86
11	Production Technician - WC60	F	34
12	Sales Representative	F	22
13	Document Control Manager	M	77
