

Using database: Adventureworks (for all Assignment)

Link: <https://docs.microsoft.com/en-us/sql/samples/adventureworks-install-configure?view=sql-server-ver15&tabs=ssms>

Assignment 01: Basic Select SQL Statement

Database: Adventureworks

Submit your answer here and attach an SQL file with file name: Full_name_HUST_ID_GroupID.sql

Task 1: Retrieve customer data

Adventure Works Cycles sells directly to retailers, who then sell products to consumers. Each retailer that is an Adventure Works customer has provided a named contact for all communication from Adventure Works. The sales manager at Adventure Works has asked you to generate some reports containing details of the company's customers to support a direct sales campaign.

Retrieve customer name data

Create a list of all customer contact names that includes the title, first name, middle name (if any), last name, and suffix (if any) of all customers.

“---Your code here.”

Retrieve customer names and phone numbers

Each customer has an assigned salesperson. You must write a query to create a call sheet that lists:

The salesperson

A column named CustomerName that displays how the customer contact should be greeted (for example, Mr Smith)

The customer's phone number.

“---Your code here.”

Task 2: Retrieve customer order data

As you continue to work with the Adventure Works customer data, you must create queries for reports that have been requested by the sales team.

Retrieve a list of customer companies

You have been asked to provide a list of all customer companies in the format Customer ID : Company Name - for example, 78: Preferred Bikes.

“---Your code here.”

Retrieve a list of sales order revisions

The SalesLT.SalesOrderHeader table contains records of sales orders. You have been asked to retrieve data for a report that shows:

The sales order number and revision number in the format () – for example SO71774 (2).

The order date converted to ANSI standard 102 format (yyyy.mm.dd – for example 2015.01.31).

“---Your code here.”

Task 3: Retrieve customer contact details

Some records in the database include missing or unknown values that are returned as NULL. You must create some queries that handle these NULL values appropriately.

Retrieve customer contact names with middle names if known

You have been asked to write a query that returns a list of customer names. The list must consist of a single column in the format first last (for example Keith Harris) if the middle name is unknown, or first middle last (for example Jane M. Gates) if a middle name is known.

“---Your code here.”

Retrieve primary contact details

Customers may provide Adventure Works with an email address, a phone number, or both. If an email address is available, then it should be used as the primary contact method; if not, then the phone number should be used. You must write a query that returns a list of customer IDs in one column, and a second column named PrimaryContact that contains the email address if known, and otherwise the phone number.

“---Your code here.”

Retrieve shipping status

You have been asked to create a query that returns a list of sales order IDs and order dates with a column named ShippingStatus that contains the text Shipped for orders with a known ship date, and Awaiting Shipment for orders with no ship date.

“---Your code here.”

You may use following documents for task 3:

ISNULL function: <https://docs.microsoft.com/en-us/sql/t-sql/queries/is-null-transact-sql?view=sql-server-ver15> (Links to an external site.)

CASE - WHEN : <https://docs.microsoft.com/en-us/sql/t-sql/language-elements/case-transact-sql?view=sql-server-ver15>