SQL Fundamentals – SORT, CALCULATE

Create SQL commands to provide information for the following problems.

1. AW: List people (person) with a last name that starts with 'Z'. Sort by last name. Show the business entity ID, title, full name (first, last), and person type.
2. AW: S List people (person) with a last name that starts with 'Z'. Sort by last name. Show the business entity ID, title, full name (first, last), and person type.
3. AW: List employees with a name that starts with 'Z'. Combine the first name and last name into a single column called ‘Person’. Sort by persontype.
4. AW: Use column aliases for every column. From the employee table, show the job title (Title), business entity id (ID), the vacation hours (Vacation Hrs), sick leave hours (Sick Leave Hrs) and the total of vacation and sick leave hours ( Total Hrs). Sort by job title..
5. AW: Use column aliases for every column. From the employee table, show the job title (Title), business entity id (ID), the vacation hours (Vacation Hrs), sick leave hours (Sick Leave Hrs) and the total of vacation and sick leave hours ( Total Hrs). Sort by total hours in descending order then job title in ascending order (the default order). HINT: Add the text DESC after a column you want sorted in descending order.

What to do:

1. In one file write all the SQL commands.
2. Before each command add the problem statement as a comment line.
3. The file must be a simple text file with a TXT or SQL file extension.
4. Test your commands and make sure they are error-free before submitting the solution file.

Solutions:

/\* List people (person) with a last name that starts with 'Z'. Sort by last name. Show the business entity ID, title, full name (first, last), and person type. \*/

Select businessentityid, title, firstname, lastname, persontype

From adventureworks2008.person.person

Where lastname like 'Y%'

Order by lastname;

/\* List people (person) with a last name that starts with 'Z'. Sort by last name. Show the business entity ID, title, full name (first, last), and person type. \*/

Select persontype, title, firstname, lastname, businessEntity ID

From adventureworks2008.person.person

Where lastname like 'Z%'

Order by persontype, lastname;

/\* List employees with a name that starts with 'Z'. Combine the first name and last name into a single column called ‘Person’. Sort by persontype. \*/

Select persontype, title, firstname + ' ' + lastname "Person", businessEntityID

From adventureworks2008.person.person

Where lastname like 'Z%'

Order by persontype, lastname;

/\* Use column aliases for every column. From the employee table, show the job title (Title), business entity id (ID), the vacation hours (Vacation Hrs), sick leave hours (Sick Leave Hrs) and the total of vacation and sick leave hours ( Total Hrs). Sort by job title. \*/

Select jobtitle "Title", businessEntityID "ID", vacationhours "Vacation Hrs",

sickleavehours "Sick Leave Hrs", Vacationhours + sickleavehours "Total Hrs"

From adventureworks2008.HumanResources.Employee

Order by jobtitle;

/\* Use column aliases for every column. From the employee table, show the job title (Title), business entity id (ID), the vacation hours (Vacation Hrs), sick leave hours (Sick Leave Hrs) and the total of vacation and sick leave hours ( Total Hrs). Sort by total hours in descending order then job title in ascending order (the default order). HINT: Add the text DESC after a column you want sorted in descending order. \*/

Select jobtitle "Title", businessEntityID "ID", vacationhours "Vacation Hrs",

sickleavehours "Sick Leave Hrs", Vacationhours + sickleavehours "Total Hrs"

From adventureworks2008.HumanResources.Employee

Order by 5 desc, 1;