Group 4 – Left join where B.key is null

The “Left join where B.key is null” is used to retrieve all tuples from the set A that is not part of the set B:

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Given the following data model (see SQL statements on page 2):

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Retrieve all product groups without any products in the group using the following SQL:

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| SELECT a.ProductGroupName, b.ProductName  FROM ProductGroup AS a  LEFT OUTER JOIN Product AS b  ON a.ProductGroupId = b.ProductGroupId  WHERE b.ProductName is NULL; |

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| USE ProductDB;  IF OBJECT\_ID('dbo.Product', 'U') IS NOT NULL DROP TABLE dbo.Product;  IF OBJECT\_ID('dbo.ProductGroup', 'U') IS NOT NULL DROP TABLE dbo.ProductGroup;  CREATE TABLE dbo.Product(  ProductId int IDENTITY(1,1) NOT NULL,  ProductName nchar(30) NOT NULL,  ProductGroupId int NOT NULL  );  CREATE TABLE dbo.ProductGroup (  ProductGroupId int IDENTITY(1,1) NOT NULL,  ProductGroupName nchar(30) NOT NULL  );  INSERT INTO dbo.ProductGroup (ProductGroupName)  VALUES  ('Bil'),  ('Computer'),  ('Kaffe'),  ('Telefon');  INSERT INTO dbo.Product (ProductName, ProductGroupId)  VALUES  ('Ford', 1),  ('Skoda', 1),  ('Lenovo', 2),  ('Apple', 2),  ('Merrild', 3),  ('BKI', 3); |