# Lab 7 (Deadline: 18-03-2021)

## SCENARIO

VanArsdel is a company that manufactures and sells sporting goods. The company has offices in the United States (US) and several other countries. Its sales comprise of US sales and International sales. VanArsdel’s sales come from its owned manufactured products, as well as other manufacturers’ products.

Your company has decided to move the Access database to the cloud, by migrating the VanArsdel's US sales data to a SQL Server database on Azure. You want to use Power BI Direct connectivity feature to connect directly to the Azure SQL database.

In this lab, you will connect to data hosted on Azure SQL database from Power BI service and Power BI desktop using direct connectivity.

## WHAT YOU’LL NEED

* A computer with the latest version of Power BI Desktop installed on it.
* Power BI service account (You need to have a work / business email to sign up for Power BI service)

## Exercise 1: Direct Connectivity From Power BI Desktop

1. Start with a blank Power BI Desktop file.
2. Connect to the Azure SQL database by using **Get Data** and select the Microsoft Azure SQL database.
3. Enter the following information to connect to the SQL Database.
   * **Server**: msedxeus.database.windows.net
   * **Database**: DAT207x01
4. Ensure **DirectQuery** is selected and click **OK**.
5. Select to use **Database** credentials and enter the following information to login and click **Connect**.
   * **Login**: PBILogin
   * **Password**: P@ssw0rd
6. Select the **bi.salesFact**the**bi.Date**tablesand click**Load**.
7. Create a chart based on the **Card**visualization.
8. Drag the **Revenue**field from the **bi salesFact**table to the chart.
9. Create a slicer based on the **Slicer**visualization.
10. Drag the **Year**field from the **bi Date**table to the slicer.

**IMPORTANT!**If you cannot login, please try the following:

* The data import may take a while depending on the speed of your Internet provider.
* Ensure you are not behind a firewall.
* Try typing the server details and credentials instead of copy pasting.

### **Lab Question**

4.0/4.0 points (graded)

Select year 2015 from the slicer and review the card visualization. What is the total Revenue for the year 2015?

125.84M

397.5M

4.91bn

251.79M

What is the total Revenue for the year 2014?

125.84M

397.5M

4.91bn

251.79M

## Exercise 2: Direct Connectivity From Power BI Service

1. Start with the pbix file you created in the previous exercise.
2. Use the **Publish** button to publish the report. Sign in using the account you used to sign up for Power BI service.
3. Go to **http://www.powerbi.com** and sign in using your account.
4. Go to the newly created dataset and edit the credentials required.
5. Enter the following information and click **Sign in**.
   * **Login**: PBILogin
   * **Password**: P@ssw0rd
6. Go to the newly created report. You should already have a card visualization for the Revenue and a slicer for the Year.
7. Create a chart based on the **Card**visualization.
8. Drag the **Units**field from the **salesFact**table to the chart.

### **Lab Question**

4.0/4.0 points (graded)

Select year 2015 from the slicer and review the card visualization. What is the total Units for the year 2015?

11M

222K

427K

963K

What is the total Units for the year 2014?

11M

222K

427K

963K

1. Save the Report and give it a name.
2. Notice that you do not have to refresh this report, because it uses a live connection (DirectQuery) to the Azure SQL database, and always up-to-date.