

Lesson 2 : power_query_editor

First question:

✓ 1. List three data sources Power BI can connect to.

Power BI can connect to hundreds of sources. Three common ones:

1. Microsoft Excel
2. SQL Server
3. Web data (e.g., from a URL or API)

✓ 2. What is the first step to import data into Power BI Desktop?

Open Power BI Desktop.

Click "Home" → "Get Data" → Choose the data source (e.g., Text/CSV).

✓ 3. How do you refresh imported data in Power BI?

- In Power BI Desktop, click **"Home" → "Refresh"**.
- In Power BI Service, schedule automatic refresh in **"Dataset settings"**.

✓ 4. What file formats can Power BI import directly? (Name two.)

- .xlsx (Excel Workbook)
- .csv (Comma Separated Values)

✓ 5. What does the "Navigator" window show after selecting a data source?

- The Navigator window shows:
 - A preview of the data.
 - Sheets or tables available (for structured files like Excel).
 - Option to Load or Transform Data.

✓ 7. How would you change OrderDate to a date format during import?

Power Query editor:

OrderDate ustunini belgilang → "Transform" menyus → "Data Type" → tanlang: "Date".

Bu ustunni date tipiga o'zgartiradi, shunda vaqt bo'yicha tahlil qilish mumkin bo'ladi.

✅ 8. What is the difference between "Load" and "Transform Data" in the import dialog?

Load Faylni darhol Power BI modeliga yuklaydi. Tahrir qilmaydi.

Transform Data Power Query oynasiga olib boradi — bu yerda ma'lumotni tozalash, filtrlash, ustunlarni o'chirish, format o'zgartirish, yangi ustun yaratish mumkin.

👉 Agar siz ma'lumotni tozalamoqchi, filtrlab yuklamoqchi yoki ustun formatini o'zgartirmoqchi bo'lsangiz — "Transform Data" ni tanlang

✅ 9. Why might you see an error when connecting to a SQL database? (Name one reason.)

SQL ma'lumotlar bazasiga ulanishda xato chiqishining sabablari:

- ❌ Login yoki parol noto'g'ri (Invalid credentials)
- ❌ SQL Server ishga tushmagan yoki tarmoqdan ko'rinmayapti
- ❌ Sizga ma'lumotlar bazasiga kirish huquqi berilmagan
- ❌ Tarmoq yoki firewall orqali portlar (masalan, 1433) yopilgan bo'lishi mumkin

10. How do you replace a data source after importing it?

Agar siz fayl manzilini yoki ma'lumotlar bazasini o'zgartirmoqchi bo'lsangiz:

Home → Transform Data → Data source settings ga kiring

Eski manbani tanlang → Change Source... tugmasini bosing

Yangi fayl yoki yangi server/baza ma'lumotlarini kiriting

OK tugmasini bosing → yangilashni kuting

How would you change the data source if Sales_Data.csv changed?

Holat 1: Fayl nomi, manzili o'zgarmagan, lekin ichidagi ma'lumot yangilangan

Faqat "Refresh" tugmasini bosish kifoya (Power BI yangilab oladi)

Holat 2: Fayl nomi yoki joylashuvi o'zgargan

Buning uchun:

Transform Data → Data Source Settings → Change Source...

Yangi faylni tanlang → OK

Power BI avtomatik ravishda eski transformatsiyalarni yangi faylga qo'llaydi (agar ustun nomlari bir xil bo'lsa).

13. Troubleshoot: Your CSV import fails due to a "mixed data type" error—how do you fix it?

"Mixed data type" error — ustun ichida bir nechta format aralashganini bildiradi (masalan: son va matn aralash).



Yechim:

Transform Data (Power Query) oynasiga o'ting

Ustunni tanlang → yuqoridan "Data Type" tugmasini bosing

To'g'ri tipni tanlang: Text, Whole Number, Date, va h.k.

Agar xatolikli qatorlar bo'lsa: Remove Errors yoki Replace Errors funksiyalaridan foydalaning

15. How would you automate data imports using Power BI and Power Automate?

Ma'lumot avtomatik ravishda yangilanib turishi uchun Power BI + Power Automate ishlatiladi:

Bosqichma-bosqich:

1. Power BI'da .pbix fayl tayyorlanadi va Power BI Service'ga Publish qilinadi
2. [Power Automate](#) saytiga o'tiladi
3. Trigger (voqea) tanlanadi — masalan:

- "When a file is modified in OneDrive"

4. Action tanlanadi:

- Refresh a dataset (Power BI connector orqali)
- Dataset va workspace tanlanadi

5. Flow saqlanadi va avtomatik ravishda ishga tushadi

Har safar fayl yangilansa, Power BI'dagi dataset ham avtomatik yangilanadi!