

# Data Science Academy

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## Microsoft Power BI Para Data Science

Manual de Instalação  
Banco de Dados Oracle

Este manual mostra passo a passo como fazer o download e instalação da versão Oracle Express Edition 11g, do banco de dados Oracle, líder mundial no segmento de banco de dados relacional e do ambiente de desenvolvimento integrado, SQL Developer, também da Oracle.

Para usuários finais que usam o Microsoft Power BI apenas para criar visualizações e dashboards, não há necessidade de instalar e configurar um banco de dados. Os usuários podem simplesmente consultar o departamento de tecnologia ou o DBA (Database Administrator) e solicitar o acesso ao banco de dados. Mas esse capítulo não é direcionado a usuários finais do Power BI e sim a usuários com nível intermediário de conhecimento em tecnologia que queiram aprender a usar um banco de dados e conectar o Power BI a esse banco de dados.

Caso você queira conectar o Power BI na sua máquina a um banco de dados na sua empresa, será necessário instalar o Oracle Client (disponível gratuitamente para download no site da Oracle) e solicitar ao DBA um login de acesso.

Ao longo deste capítulo usaremos o Power BI como ferramenta ETL, vamos construir um pequeno Data warehouse no banco de dados Oracle e então conectar o Power BI a esse banco de dados.

Bons estudos!

Equipe DSA

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Oracle Q2 GAAP EPS Up 18% to \$0.61, Non-GAAP EPS Up 16% to \$0.80

[See the results →](#)

The Oracle homepage features a large banner with the text "Oracle Q2 GAAP EPS Up 18% to \$0.61, Non-GAAP EPS Up 16% to \$0.80" and a "See the results" button. Below the banner is a dark navigation bar with icons for Downloads, Get Training, See Oracle Jobs, Develop on Oracle, Get Support, and Get Product Documentation, along with a "More" dropdown.

Acesse o site da Oracle em [www.oracle.com](https://www.oracle.com) para fazer o download do banco de dados. Você vai precisar de uma conta para realizar o download. Clique no link **Sign-In** no menu superior e faça seu cadastro gratuitamente!

Database automation is an opportunity to shed mundane tasks, partner with business leaders.

[DBA of the Future →](#)

The Oracle Database Insider blog delivers a regular stream of education, best practices, and use cases.

[Get database Insights delivered →](#)

Learn how Oracle Retail gives clear inventory visibility, balances financial performance with customer conversion. Jan. 8, 2019, 11:00 a.m. ET.

[Oracle Retail update →](#)

The Oracle homepage features three promotional cards: "DBA of the Future", "Get database Insights delivered", and "Oracle Retail update". Below these cards is a teal navigation bar with links for "Download SQL Developer", "Try Oracle Cloud Free", "Subscribe to Finance Leader Blog", "Oracle OpenWorld 2018 Keynotes", and "Download Java Runtime Environment". At the bottom, there are sections for "Contact Us", "About Oracle", "Downloads and Trials", and "News and Events". The "Downloads and Trials" section includes links for "Java Runtime Download", "Java for Developers", and "Software Downloads", with "Software Downloads" highlighted by a red box. The footer contains the Oracle logo, links for "Integrated Cloud Applications & Platform Services", social media icons, and a copyright notice.

Vá até o a parte inferior da página e em **Downloads and Trials** e clique em **Software Downloads**

The screenshot shows the Oracle Software Downloads page. At the top, there's a banner for 'Customer Downloads' with a note about using the Oracle Software Delivery Cloud for commercial license holders. Below this is a 'Free Trial: Oracle Cloud' section with links to start a trial or view frequently asked questions. The main navigation menu includes categories like Database, Middleware, Applications, IT Infrastructure, Java, Developer Tools, Drivers and Utilities, and Open Source. The 'Database' category is highlighted with a red box.

### Clique em Database Downloads

The screenshot shows the 'Database' downloads page. It features a sidebar with icons for Database, Middleware, Applications, IT Infrastructure, Java, Developer Tools, Drivers and Utilities, and Open Source. The 'Database' icon is highlighted with a red box. The main content area lists various Oracle Database editions and related products, with the 'Database 11g Express Edition' link highlighted by a red box.

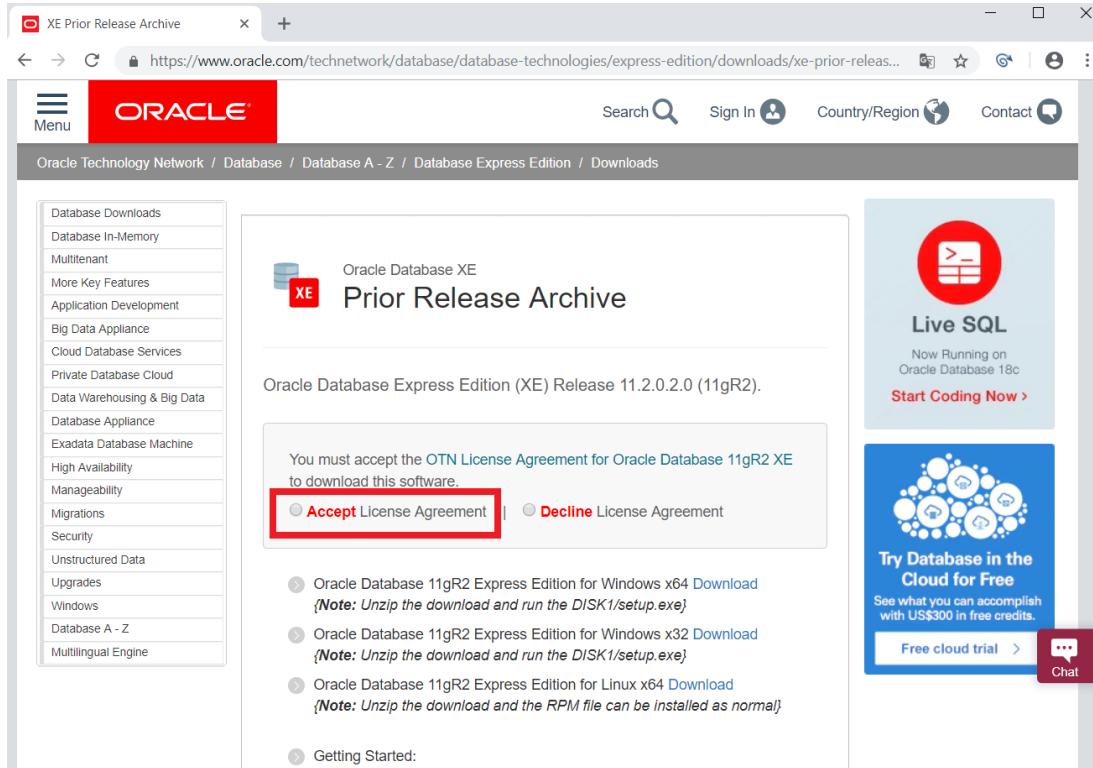
- Database 18c Enterprise/Standard Editions
- Database 12c Enterprise/Standard Editions
- Database 11g Enterprise/Standard Editions
- Database 11g Express Edition
- Audit Vault and Database Firewall
- Berkeley DB
- Big Data Connectors
- Cluster Verification Utility
- Database Mobile Server
- Grid Infrastructure

### Clique em Database 11g Express Edition

The screenshot shows the Oracle Technology Network website for Database Express Edition. The left sidebar has a 'Database Downloads' section with various links. The main content area is titled 'Oracle Database XE Downloads'. It mentions the release date (October 19, 2018) and requires accepting the OTN License Agreement. Below this, there are sections for Oracle Database 18c Express Edition files (Linux x64, RPM for RHEL/CentOS), Getting Started guides, and Documentation. A red box highlights the 'Prior Release Archive' link at the bottom of the page.

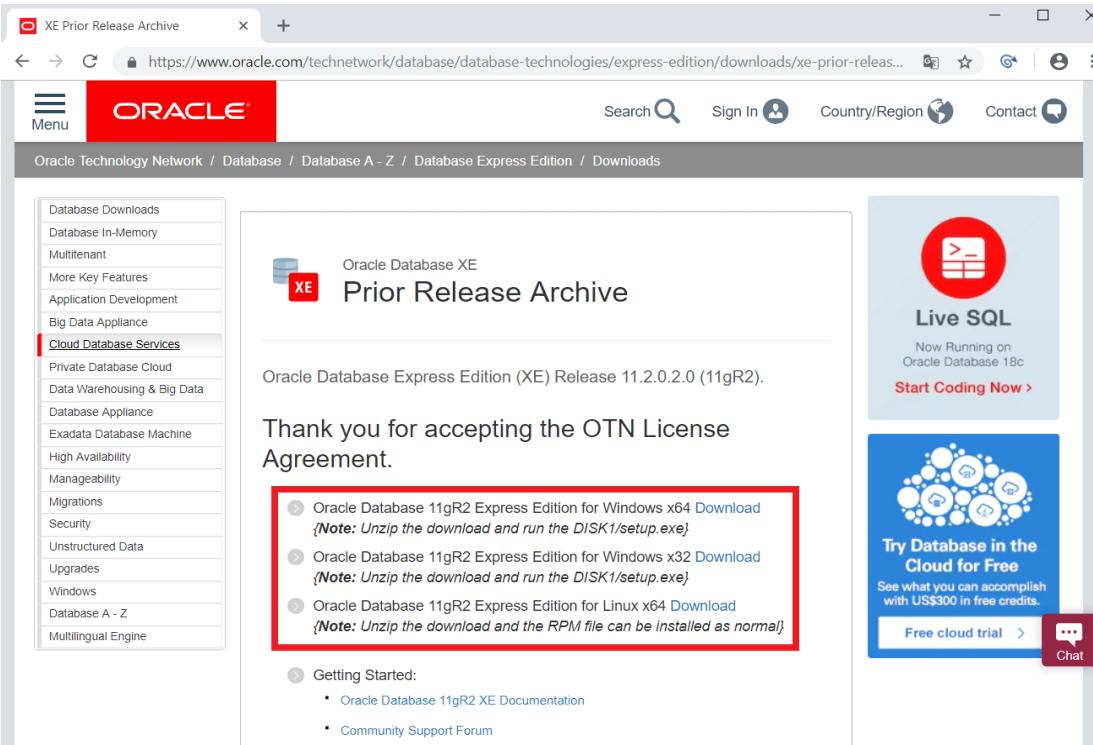
### Clique em **Prior Release Archive**

Acesse o endereço: <https://www.oracle.com/technetwork/database/database-technologies/express-edition/downloads/xe-prior-releases-5172097.html> para download do Oracle Database Express Edition (XE) Release 11.2.0.2.0 (11gR2)



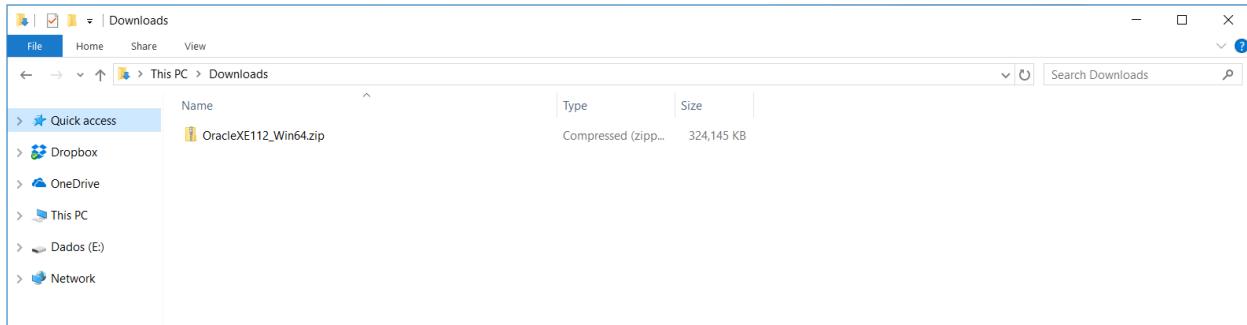
The screenshot shows the Oracle Database Express Edition Prior Release Archive page. On the left, there's a sidebar with various database-related links. The main content area features a heading 'Oracle Database XE Prior Release Archive'. Below it, a message states 'You must accept the OTN License Agreement for Oracle Database 11gR2 XE to download this software.' Two radio buttons are shown: one for 'Accept License Agreement' (which is selected and highlighted with a red box) and one for 'Decline License Agreement'. To the right, there's a sidebar with a 'Live SQL' section and a 'Try Database in the Cloud for Free' section.

Marque a opção para aceitar os termos de uso (**Accept License Agreement**)

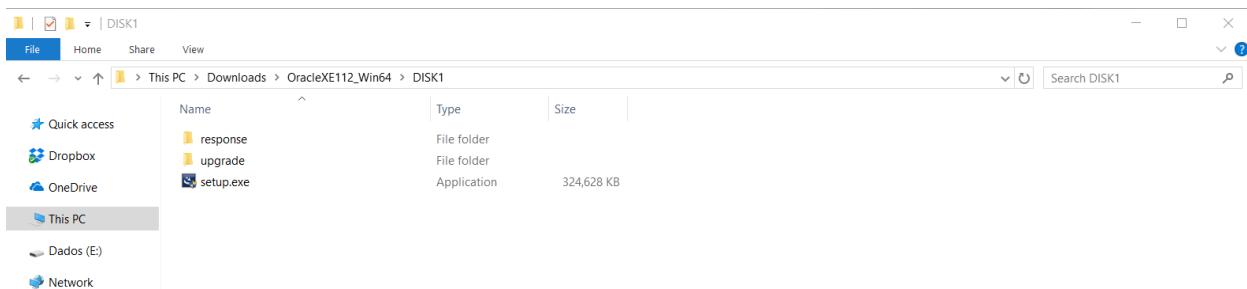


The screenshot shows the same page after the 'Accept License Agreement' button has been clicked. The message about accepting the license agreement is no longer present. Instead, a thank you message appears: 'Thank you for accepting the OTN License Agreement.' Below this, the download options for Oracle Database 11gR2 Express Edition are listed again, with the entire list highlighted by a red box.

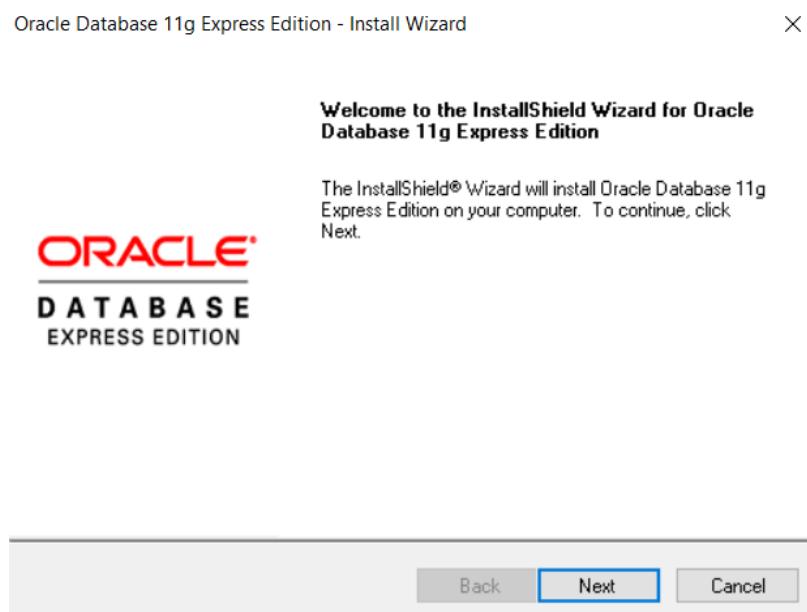
Selecione a opção de download de acordo com seu sistema operacional 32 ou 64 bits.  
Estaremos usando ao longo deste capítulo a versão **Windows 64 bits!**



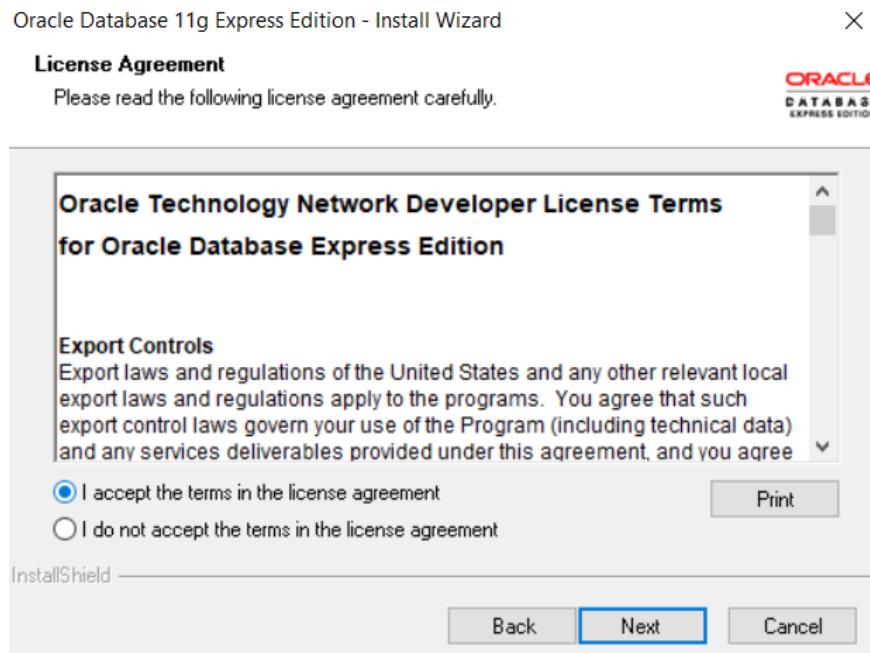
Acesse o diretório onde você baixou o arquivo e descompacte-o



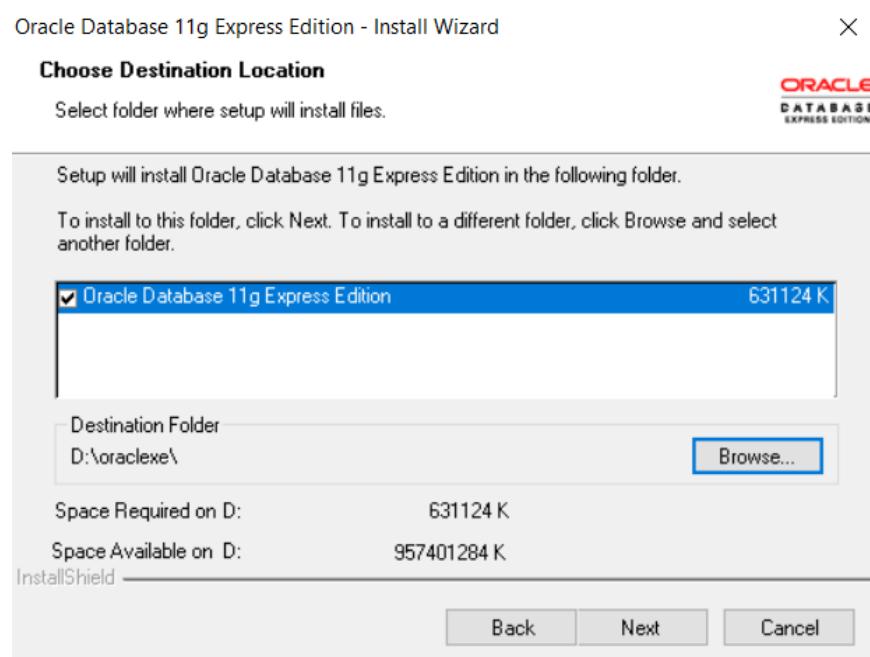
Dentro do arquivo descompactado, 2 cliques em setup.exe para iniciar a instalação



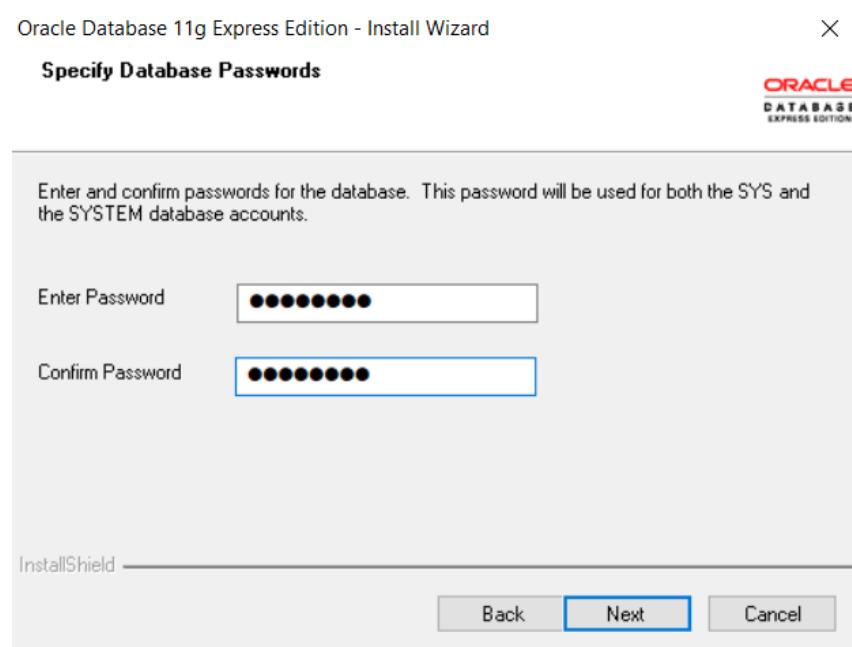
Na tela de boas vindas clique em **Next**



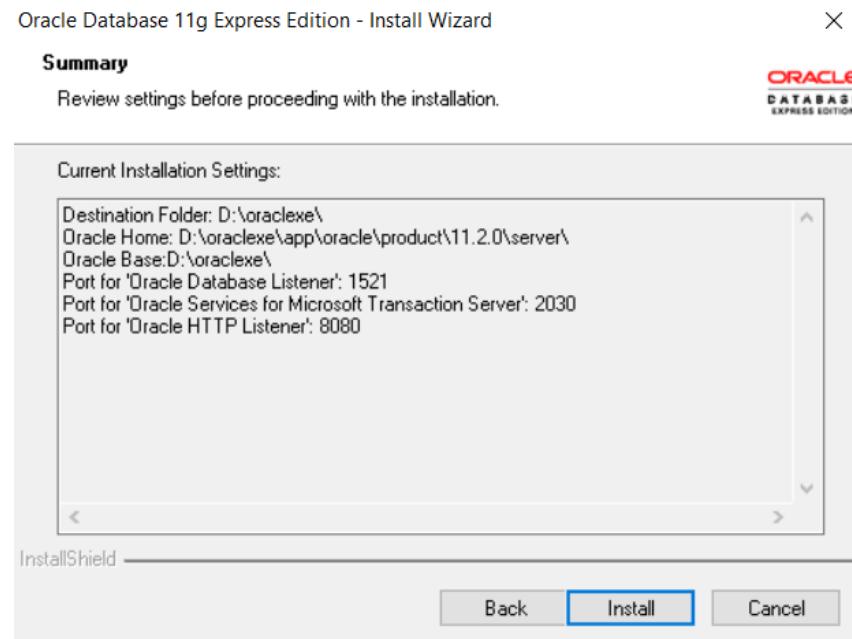
Aceite os termos de uso e clique em Next



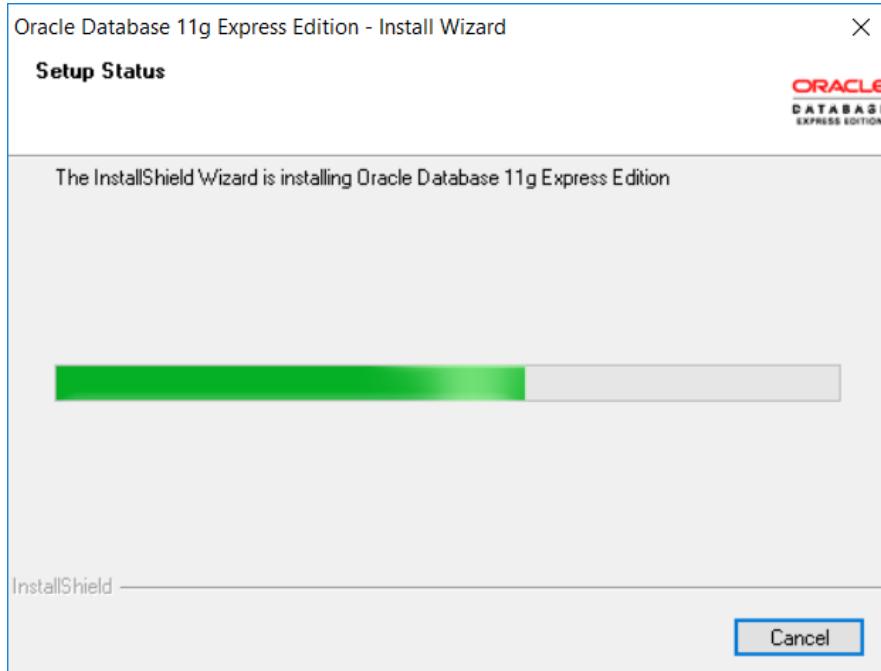
Selecione o diretório de instalação e clique em Next  
(caso não queira mudar o diretório de instalação, deixe marcada a opção padrão)



Digite a senha e confirme. Esta será a senha do administrador do banco de dados.  
Não perca esta senha!!!!!!

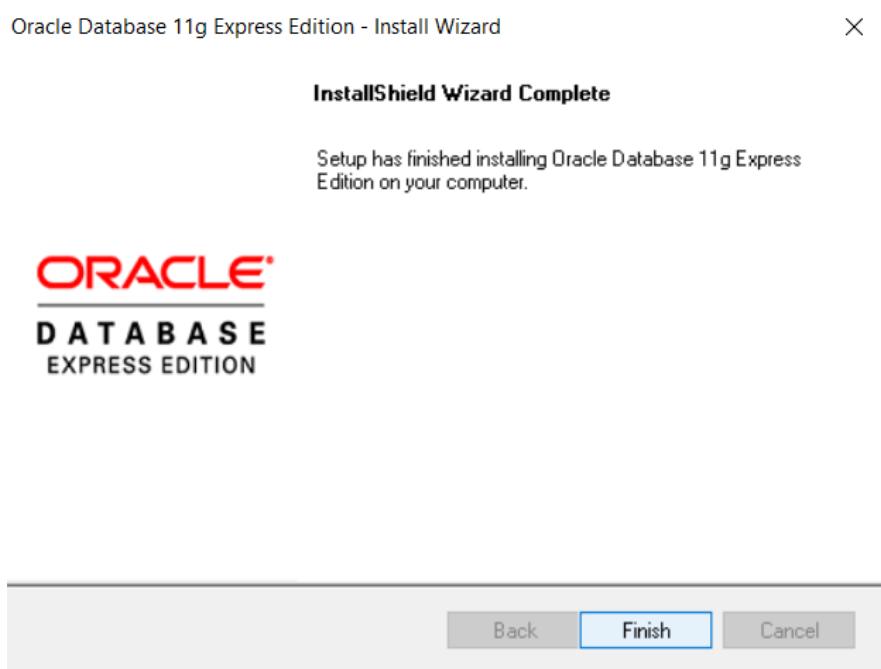


Resumo da instalação. Clique em Install.



Instalação em andamento.

Dependendo da velocidade do seu computador esse processo pode ser demorado.



Instalação concluída com sucesso. Agora vamos baixar e instalar o SQL Developer.

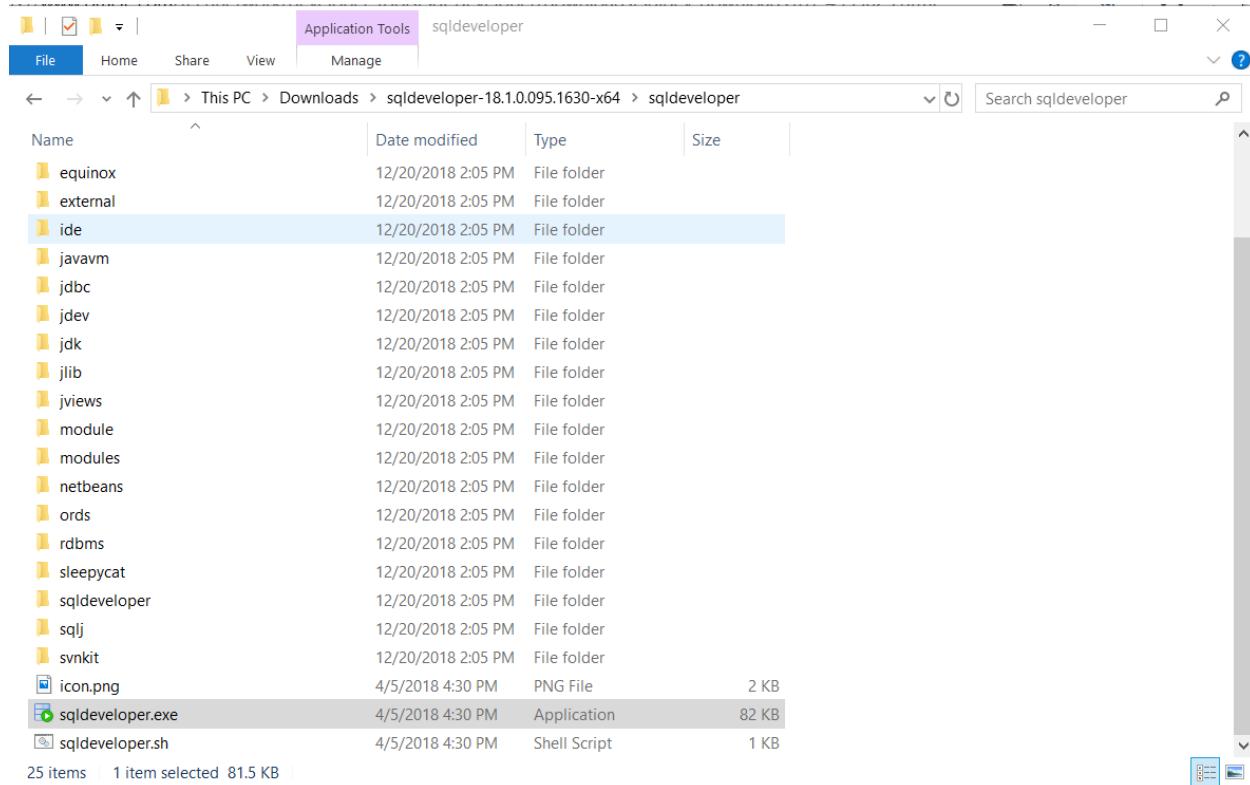
The screenshot shows the Oracle Technology Network website with the URL <https://www.oracle.com/technetwork/developer-tools/sql-developer/downloads/sqldev-downloads181-4959023.html>. The page displays the Oracle logo and navigation links for developer tools. On the right, there's a section for 'Downloads' featuring the 'SQL Developer' icon. Below it, a 'License Agreement' section asks for acceptance of the OTN License. Further down, the 'SQL Developer 18.1' section provides version details (Version 18.1.0.095.1630, April 5, 2018) and links to 'New Features', 'Release Notes', 'Bugs Fixed', and 'Documentation'. Two download options are shown: 'Windows 64-bit with JDK 8 included' (423 MB) and 'Windows 32-bit/64-bit' (350 MB). Each download link includes a 'Download' button with a red arrow icon.

Acesse o endereço: <https://www.oracle.com/technetwork/developer-tools/sql-developer/downloads/sqldev-downloads181-4959023.html>, para download do SQL Developer.

Selecione a opção conforme seu sistema operacional, 32 ou 64 bits. Aqui estaremos usando a **versão 64 bits para Windows with JDK 8 included**.

The screenshot shows the Windows File Explorer interface with the title bar 'Downloads'. The left sidebar shows 'This PC' with 'OneDrive' selected. The main area displays two items in the 'Downloads' folder: 'sqldeveloper-18.1.0.095.1630-x64' (File folder) and 'sqldeveloper-18.1.0.095.1630-x64.zip' (WinRAR ZIP archive, 433,329 KB).

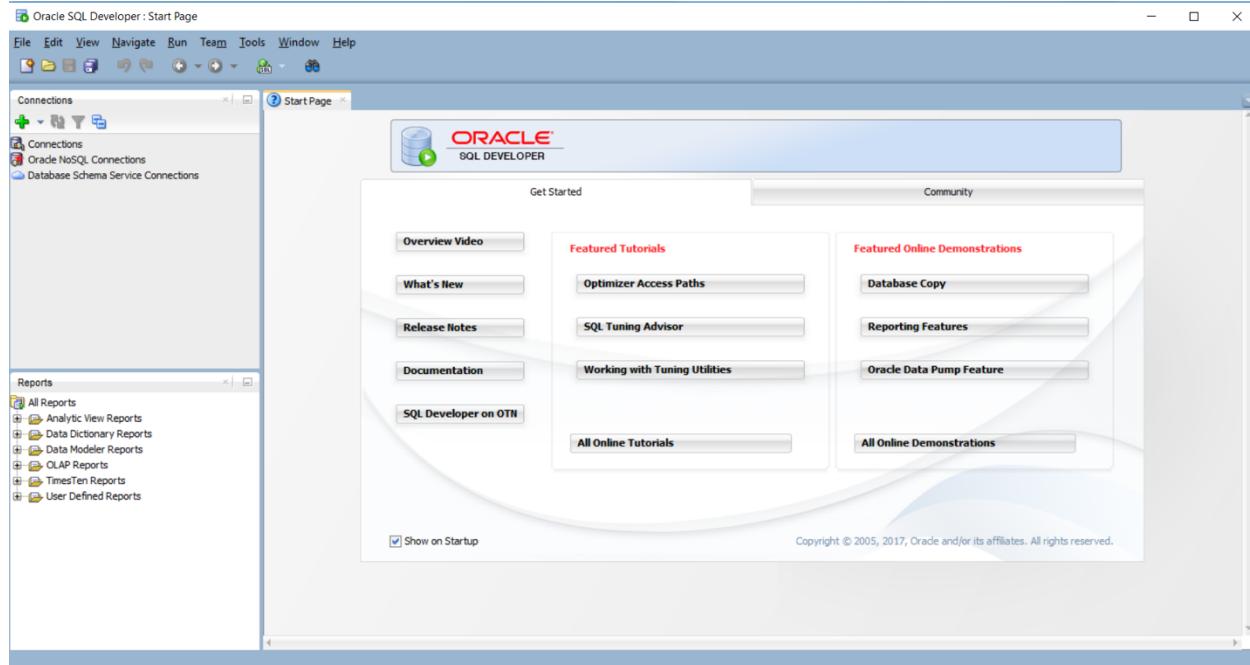
Acesse o diretório onde você baixou o arquivo e descompacte-o.



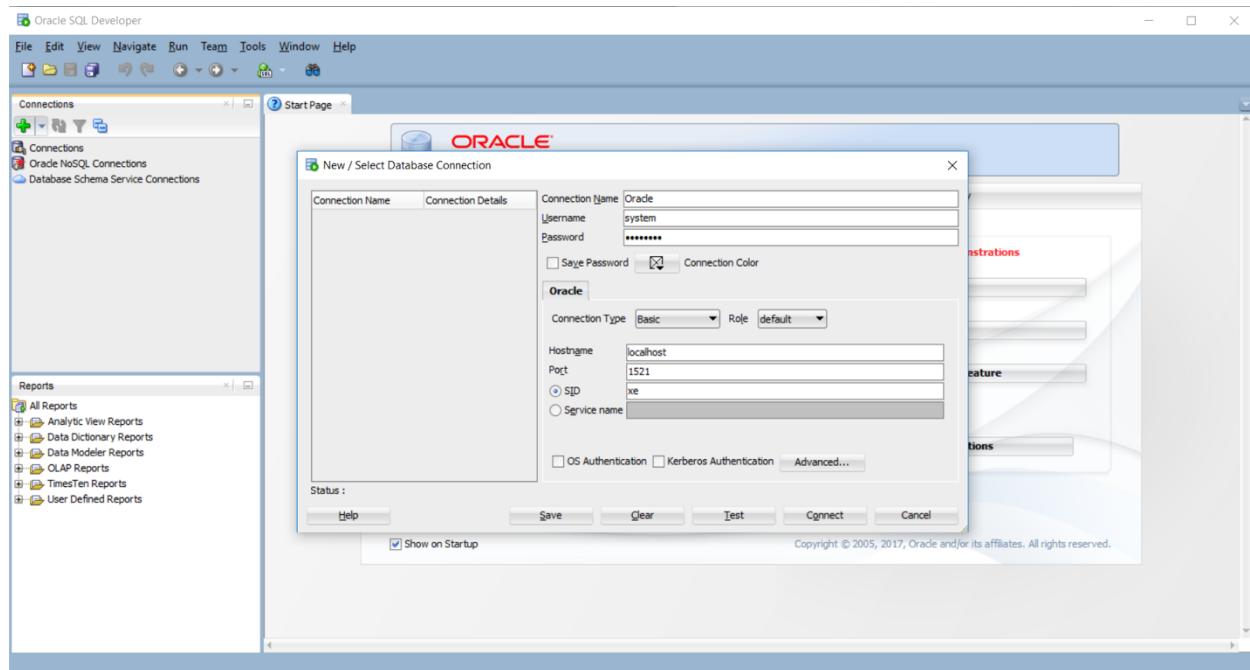
No diretório descompactado, 2 cliques em `sqldeveloper.exe`. O SQL Developer não tem instalação e basta você mover o diretório inteiro para algum local em sua máquina (esse local não pode conter espaços) e executar o arquivo sempre que quiser iniciar a ferramenta.



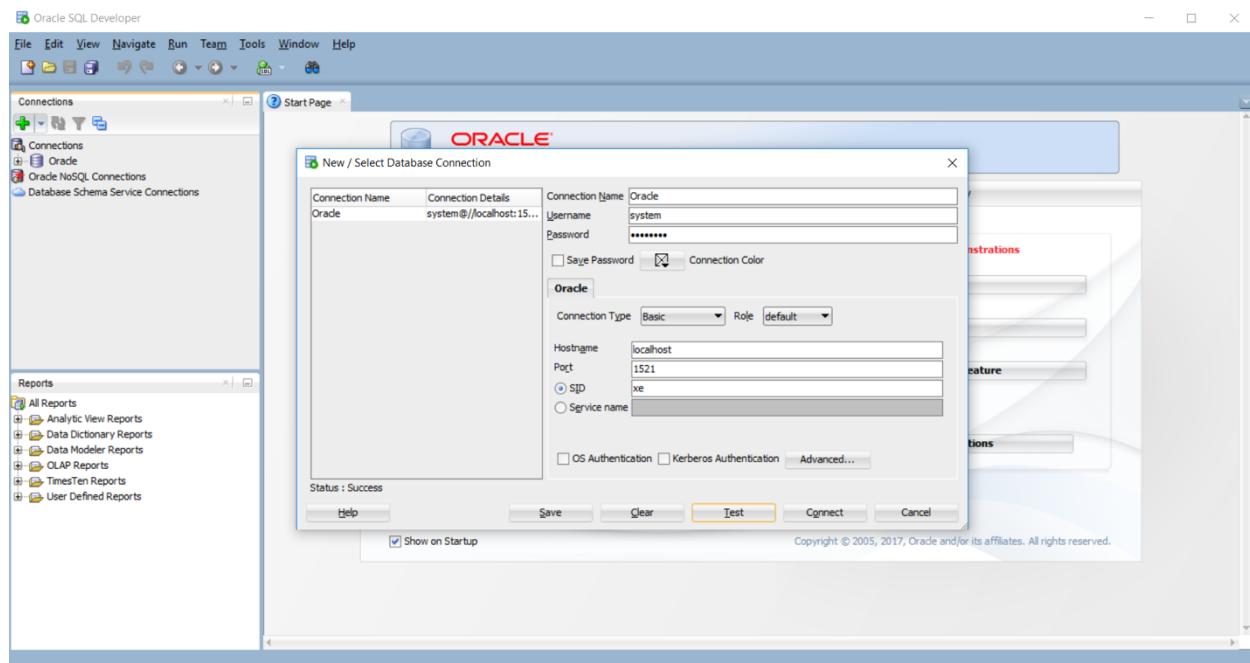
Inicializando o SQL Developer



Tela de boas vindas do SQL Developer



Para conectar ao banco de dados, clique no sinal de + no canto esquerdo e então digite o nome da conexão, usuário **system** e senha que você definiu na instalação do banco de dados Oracle. Fique atento as informações de conexão (localhost, 1521, xe), pois elas indicam conexão local, na porta 1521 e no banco de dados chamado xe.



Clique no botão Test e aparecerá a mensagem Status: Sucesso.

**Estamos prontos para começar a trabalhar!**