



TUTORIAL PASSO A PASSO

- Criar uma conta gratuita Oracle Cloud

<https://youtu.be/XW7isnD1mWM>

- Depois com sua conta criada faça Login no Oracle Cloud e siga as instruções abaixo

The screenshot shows the Oracle Cloud homepage with a dark header bar. The main content area includes:

- Service links:** Includes sections for PINNED (Instances Compute, Virtual cloud networks Networking), RECENTLY VISITED (Autonomous Database Autonomous Database, Autonomous Data Warehouse Autonomous Database, APEX Instances APEX Application Development, APEX Application Development Infrastructure, Oracle NoSQL Database Infrastructure, DB Systems MySQL), and RECOMMENDED (Customize, Users Identity, Logging Logging, Tenancies Organization Management, Groups Identity, Policies Identity, Buckets Object Storage & Archive Storage).
- Quickstarts:** Includes sections for FEATURED (Predict the result of the next race, Deploy a WordPress website, Deploy a low-code app on Autonomous Database using APEX), APPLICATION DEVELOPMENT (Deploy RStudio in a container, Deploy a baseline landing zone), and DATABASE (Visualize and analyze Strava data on Autonomous Database).
- Launch resources:** A section titled "View all resources" with a button.
- Right sidebar:** Includes sections for "Access all OCI services" (with a purple "Upgrade" button), "Your tenancy Idg", "All services operational" (with a green "View health dashboard" button), "Usage" (Always Free, You're using a Free Tier account. Upgrade now to access more services), "OCI mobile app" (Review alarms, access billing and usage data, and manage resources on the go), "What's new" (UI-based Discovery for PeopleSoft Resources, Feb 9, 2023), and "Join preview program" (Visualize Synthetic Monitor Runs in Network Data Explorer, Feb 8, 2023).

The screenshot shows the Oracle Database service page in the Oracle Cloud interface. The left sidebar has a red box around the "Oracle Database" link. The main content area includes:

- Overview:** Includes links for Autonomous Database, Autonomous Data Warehouse, Autonomous JSON Database, and Autonomous Transaction Processing.
- Autonomous Dedicated Infrastructure:** Includes links for Oracle Base Database (VM, BM), Exadata on Oracle Public Cloud, and Exadata Cloud@Customer.
- External Database:** Includes links for Data Safe Overview, Target Databases, and Security Center.
- Database Backups:** Includes links for GoldenGate and Operator Access Control.
- Related services:** Includes links for APEX Application Development, SQL Worksheet, Database Management, Migrations, Data Integration, Streaming, MySQL, Oracle NoSQL Database, and All Oracle Database Documentation.
- Help:** Includes links for Autonomous Databases, Bare Metal and VM DB Systems, Exadata Cloud@Customer, and All Oracle Database Documentation.

ORACLE Cloud Search resources, services, documentation, and Marketplace

Brazil East (Sao Paulo)

Overview > Autonomous Database > Autonomous Databases

Autonomous Database **Autonomous Databases in idg (root) Compartment**

Autonomous Database delivers fast performance and requires no database administration. It performs all routine database maintenance tasks while the system is running, without human intervention. Autonomous Databases located in the Oracle cloud can run on dedicated or shared infrastructure. [Learn more.](#)

Create Autonomous Database

Display Name	State	Dedicated	Compute	Storage	Workload type	Autonomous Data Guard	Created		
comunitadesdelecion	Always Free	<input checked="" type="radio"/>	Terminated	No	1	20 GB	APEX	—	Wed, Feb 8, 2023, 17:34:52 UTC
meubancodedados	Always Free	<input checked="" type="radio"/>	Available	No	1	20 GB	Data Warehouse	—	Mon, Dec 5, 2022, 00:59:25 UTC

Displaying 2 Autonomous Databases < 1 of 1

Detailed description: This screenshot shows the Oracle Cloud Autonomous Database management interface. It lists two existing databases: 'comunitadesdelecion' and 'meubancodedados'. A red box highlights the 'Create Autonomous Database' button. Below it, there are filters for 'Compartment' (set to 'idg (root)'), 'Workload type' (set to 'All'), 'State' (set to 'Any state'), and 'Tag filters'.

ORACLE Cloud Search resources, services, documentation, and Marketplace

Create Autonomous Database

Provide basic information for the Autonomous Database

Compartment

Display name **WORKSHOPSQ**

Database name **WORKSHOPSQ**

The name must contain only letters and numbers, starting with a letter. Maximum of 30 characters.

Choose a workload type

Transaction Processing
Built for transactional workloads. High concurrency for short-running queries and transactions.

Data Warehouse
Built for decision support and data warehouse workloads. Fast queries over large volumes of data.

JSON
Built for JSON-centric application development. Developer-friendly document APIs and native JSON storage.

APEX
Built for Oracle APEX application development. Creation and deployment of low-code applications, with database included.

Choose a deployment type

Shared infrastructure
Run Autonomous Database on Shared Exadata infrastructure.

Dedicated infrastructure
Run Autonomous Database on Dedicated Exadata infrastructure.

Detailed description: This screenshot shows the 'Create Autonomous Database' wizard. Step 1: 'Provide basic information for the Autonomous Database'. It shows the compartment 'idg (root)', display name 'WORKSHOPSQ', and database name 'WORKSHOPSQ'. A red box highlights the display name field. Step 2: 'Choose a workload type'. It lists four options: Data Warehouse, Transaction Processing (selected), JSON, and APEX. A red box highlights the 'Transaction Processing' section. Step 3: 'Choose a deployment type'. It shows 'Shared infrastructure' selected, with the note 'Run Autonomous Database on Shared Exadata infrastructure.' A red box highlights the 'Shared infrastructure' section. Step 4: 'Configure the database'. It shows the 'Always Free' toggle switch turned on, with the note 'Show only Always Free configuration options'. A red box highlights the 'Always Free' section.

≡ ORACLE Cloud | Search resources, services, documentation, and Marketplace

Create Autonomous Database

Provide basic information for the Autonomous Database

Compartment
idg (root)

Display name
WORKSHOPSQ1
A user-friendly name to help you easily identify the resource.

Database name
WORKSHOPSQ1
The name must contain only letters and numbers, starting with a letter. Maximum of 30 characters.

Choose a workload type

Data Warehouse	Transaction Processing	JSON	APEX
Built for decision support and data warehouse workloads. Fast queries over large volumes of data.	Built for transactional workloads. High concurrency for short-running queries and transactions.	Built for JSON-centric application development. Developer-friendly document APIs and native JSON storage.	Built for Oracle APEX application development. Creation and deployment of low-code applications, with database included.✓

Choose a deployment type

Shared infrastructure Run Autonomous Database on Shared Exadata infrastructure.	Dedicated infrastructure Run Autonomous Database on Dedicated Exadata infrastructure.
--	--

Dedicated Exadata Infrastructure is not available for Always Free Oracle Autonomous Database.

Configure the database

Always Free ⓘ
 Show only Always Free configuration options

[Create Autonomous Database](#) [Cancel](#)

Configure the database

Always Free ⓘ
 Show only Always Free configuration options

If your Always Free Autonomous Database has no activity for 7 consecutive days, the database will be automatically stopped. Your data will be preserved, and you can restart the database to continue using it. If the database remains stopped for 3 months, it will be reclaimed. [Learn more](#).

Choose database version
19c

OCPU count Read-only
1
Always Free Autonomous databases can utilize up to 1 core. The CPU core count cannot be adjusted.

Storage (TB) Read-only
0.02
Always Free Autonomous databases can utilize up to 0.02 TB (20 GB) of storage. The storage size cannot be adjusted.

OCPU auto scaling
Allows systems to expand up to three times the provisioned OCPU as workload increases. [Learn more](#) about auto scaling.

Storage auto scaling
Allows system to expand up to three times the reserved storage.

Create administrator credentials ⓘ

Username Read-only
ADMIN
ADMIN username cannot be edited.

Password
.....

Confirm password

Create Autonomous Database

Choose network access

Access type

Secure access from everywhere Allow users with database credentials to access the database from the internet.

Secure access from allowed IPs and VCNs only Restrict access to specified IP addresses and VCNs.

Private endpoint access only Restrict access to a private endpoint within an OCI VCN.

The virtual cloud network option is not available for OCI Free Tier accounts.

Require mutual TLS (mTLS) authentication ⓘ If you select this option, mTLS will be required to authenticate connections to your Autonomous Database.

Choose license and Oracle Database edition

Choose a license type

Bring your own license (BYOL) Bring your organization's Oracle Database software license to the Oracle Database service. [Learn more](#)

License included Subscribe to a new Oracle Database software license and the Oracle Database service.

Provide contacts for operational notifications and announcements ⓘ

Contact Email Enter a valid email ID

[Show advanced options](#)

Create Autonomous Database [Cancel](#)

Oracle Database

Autonomous Database Autonomous Data Warehouse
Autonomous JSON Database
Autonomous Transaction Processing

External Database Oracle Base Database (VM, BM)
Exadata on Oracle Public Cloud
Exadata Cloud@Customer

Database Backups GoldenGate
Operator Access Control

Related services APEX Application Development
SQL Developer
Database Management
Migrations
Data Integration
Streaming
MySQL
Oracle NoSQL Database

Help Autonomous Databases
Bare Metal and VM DB Systems
Exadata Cloud@Customer
All Oracle Database Documentation

Autonomous Database Autonomous Databases in idg (root) Compartment

Autonomous Database delivers fast performance and requires no database administration. It performs all routine database maintenance tasks while the system is running, without human intervention. Autonomous Databases located in the Oracle cloud can run on dedicated or shared infrastructure. [Learn more](#).

Display Name	State	Dedicated	Compute	Storage	Workload type	Autonomous Data Guard	Created
WORKSHOPSQL <small>Always Free</small>	Available	No	1	20 GB	Data Warehouse	—	Fri, Feb 24, 2023, 21:51:19 UTC
comunitadesdevoe <small>Always Free</small>	Terminated	No	1	20 GB	APEX	—	Wed, Feb 8, 2023, 17:34:52 UTC
msubanodedados <small>Always Free</small>	Available	No	1	20 GB	Data Warehouse	—	Mon, Dec 5, 2022, 00:59:25 UTC

Displaying 3 Autonomous Databases < 1 of 1 >

Filters

Workload type: All

State: Any state

Tag filters: [add](#) [clear](#) no tag filters applied

WORKSHOPSQL Always Free

[Database actions](#) [Database connection](#) [Performance hub](#) [Manage scaling](#) [More actions](#)

Autonomous Database information

General information

- Database name: WORKSHOPSQL
- Workload type: Data Warehouse
- Compartment: idg (root)
- OCID: xkey4wq [Show](#) [Copy](#)
- Created: Fri, Feb 24, 2023, 21:51:19 UTC
- OCPU count: 1
- OCPU auto scaling: Disabled [i](#)
- Storage: 20 GB
- Storage auto scaling: Disabled [i](#)
- License type: License included
- Database version: 19c
- Lifecycle state: Available
- Instance type: Free [Upgrade to Paid](#)
- Character set: AL32UTF8
- National character set: AL16UTF16
- Mode: Read/write [Edit](#)

APEX instance

- Instance name: [WORKSHOPSQL](#)

Infrastructure

- Dedicated infrastructure: No

Autonomous Data Guard [i](#)

- Status: Disabled [i](#)

Backup

- Last automatic backup: Fri, Feb 24, 2023, 23:26:20 UTC

Network

- Access type: Allow secure access from everywhere
- Access control list: Disabled [Edit](#)
- Mutual TLS (mTLS) authentication: Required [Edit](#) [i](#)

Maintenance [i](#)

- Patch level: Regular [i](#)
- Next maintenance: Sat, Feb 25, 2023, 04:00:00 UTC - 06:00:00 UTC [View history](#)
- Customer contacts: None [i](#) [Manage](#)

Data Safe [i](#)

- Status: Not registered [Register](#)

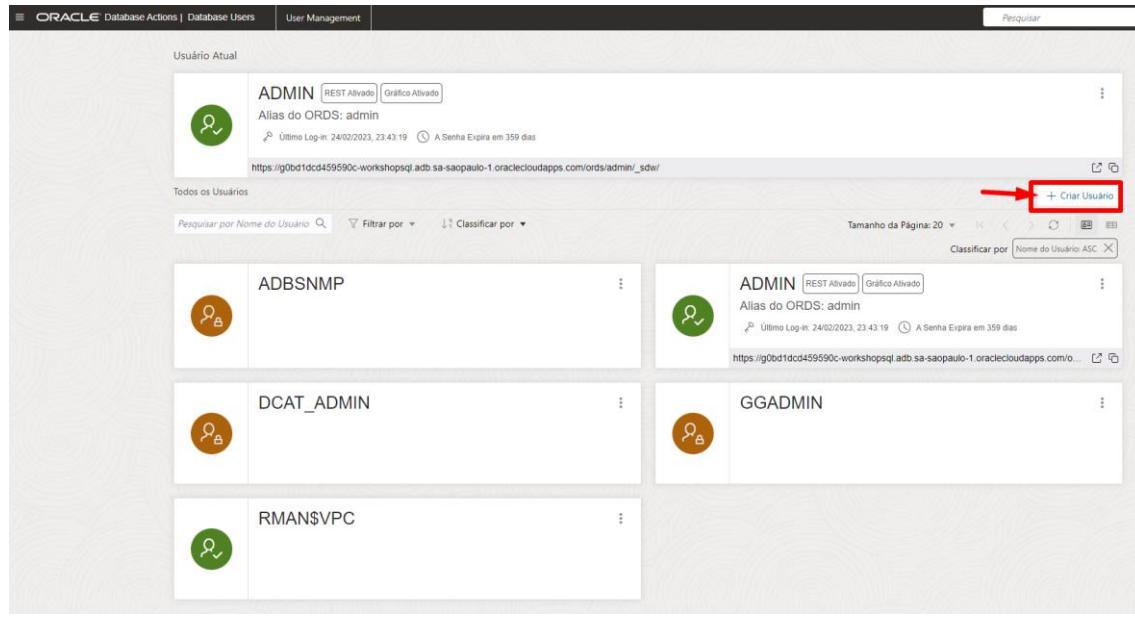
ORACLE Database Actions | Launchpad

Desenvolvimento		Data Studio	
SQL Execute consultas e scripts, navegue pelos seus objetos de banco de...	DATA MODELER Faça engenharia reversa de esquemas para diagramas...	VISÃO GERAL DO DATA STUDIO Ferramentas do Data Studio	CARGA DE DADOS Dados de carga ou acesso de arquivos locais ou bancos de d...
REST Um IDE para suas APIs REST que permite que você gerencie...	LIQUIBASE Exiba ChangeLogs aplicados ao seu esquema.	CATÁLOGO Compreenda as dependências de dados e o impacto das alterações.	INSIGHTS DE DADOS Descubra anomalias, outliers e padrões ocultos em seus dados.
JSON Crie coleções, faça upload de documentos, consulte e filtre seus...	GRÁFICOS Use consultas SQL para criar gráficos sofisticados e painéis de...	TRANSFORMAÇÕES DE DADOS Transforme dados para análise e outras aplicações.	ANÁLISE DE DADOS Analise seus dados.
PROGRAMANDO Uma interface para DBMS_SCHEDULER que permite...	ORACLE MACHINE LEARNING O Oracle Machine Learning oferece vários componentes acessíveis por...		
APEX Faça log-in no APEX, desenvolva e execute aplicativos web sofisticad...	GRAPH STUDIO O Oracle Graph Studio permite criar bancos de dados gráficos...		
Administração		Monitoramento	
USUÁRIOS DO BANCO DE DADOS Capacite esquemas para REST, altere senhas, designe cota de...	ESPAÇOS DE TRABALHO DO APEX Crie e exclua espaços de trabalho do APEX, exiba a lista de aplicativo...	HUB DE DESEMPENHO Acesse relatórios de Monitoramento de SQL e Análises...	PAINEL DO BANCO DE DADOS Monitora gráficos de atividade do banco de dados, como uso da CP...
DATA PUMP Exiba jobs do Data Pump e use nosso assistente para criar e...	FAZER DOWNLOAD DAS CREDENCIAIS DO CLIENTE... As conexões com o Autonomous Database utilizam uma conexão...		

ORACLE Database Actions | Launchpad

Desenvolvimento		Data Studio	
SQL Execute consultas e scripts, navegue pelos seus objetos de banco de...	DATA MODELER Faça engenharia reversa de esquemas para diagramas...	VISÃO GERAL DO DATA STUDIO Ferramentas do Data Studio	CARGA DE DADOS Dados de carga ou acesso de arquivos locais ou bancos de d...
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JSON Crie coleções, faça upload de documentos, consulte e filtre seus...	GRÁFICOS Use consultas SQL para criar gráficos sofisticados e painéis de...	TRANSFORMAÇÕES DE DADOS Transforme dados para análise e outras aplicações.	ANÁLISE DE DADOS Analise seus dados.
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Criar usuário: Clica no botão criar usuário



The screenshot shows the Oracle Database Actions | Database Users interface. At the top, there's a navigation bar with 'ORACLE Database Actions | Database Users' and 'User Management'. A search bar labeled 'Pesquisar' is on the right. Below the header, there's a section titled 'Usuário Atual' showing the 'ADMIN' user details. On the far right of this section is a red box highlighting the '+ Criar Usuário' (Create User) button. The main area displays a grid of users: 'ADBSNMP', 'ADMIN', 'DCAT_ADMIN', 'GGADMIN', and 'RMAN\$VPC'. Each user entry includes a profile icon, the username, and some status information. Below the grid is a 'Criar Usuário' (Create User) form. The 'Usuário' tab is selected. In the 'Nome do Usuário' field, 'ALUNO' is entered. The 'Senha' field contains '*****'. The 'Confirmar Senha' field also contains '*****'. There are checkboxes for 'Gráfico' (unchecked), 'Acesso à Web' (unchecked), and 'Alias de REST' (unchecked). On the right side of the form, there are sections for 'Cota de tablespace DATA' (set to 'Usar cota padrão') and 'Atribuições Concedidas' (0). Below these are checkboxes for 'Senha Expirada' (unchecked) and 'A Conta foi Bloqueada' (unchecked). At the bottom of the form are buttons for 'Mostrar código' (Show code), 'Criar Usuário' (Create User), and 'Cancelar' (Cancel).

Escolha uma senha com os padrões de segurança exigidos

Atribuição de privilégios ao usuário

Criar Usuário				
Usuário	Atribuições Concedidas			
Filtrar por atribuição		Concedido	Admin	Padrão
ACCHK_READ	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ADB_MONITOR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ADM_PARALLEL_EXECUTE_TASK	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ADPSIMPL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ADPADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
ADPUSER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
APEX_ADMINISTRATOR_READ_ROLE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
APEX_ADMINISTRATOR_ROLE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Criar Usuário				
Usuário	Atribuições Concedidas			
Filtrar por atribuição		Concedido	Admin	Padrão
C#DNSREST_ADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CAPTURE_ADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CDB_OBA	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CONNECT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CONSOLE_ADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CONSOLE_DEVELOPER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CONSOLE_MONITOR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CONSOLE_OPERATOR	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
CTXAPP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DATA_TRANSFORM_USER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DATAPATCH_ROLE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DATAPUMP_CLOUD_EXP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DATAPUMP_CLOUD_IMP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DATAPUMP_EXP_FULL_DATABASE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DATAPUMP_IMP_FULL_DATABASE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DBA	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
DRFS_ROIF	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Criar Usuário				
Usuário	Atribuições Concedidas			
Filtrar por atribuição		Concedido	Admin	Padrão
PGX_SESSION MODIFY_MODEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PGX_SESSION NEW_GRAPH	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PGX_SESSION READ_MODEL	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PROVISIONER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PYQADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RDFCTX_ADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RECOVERY_CATALOG_OWNER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RECOVERY_CATALOG_OWNER_VPD	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RECOVERY_CATALOG_USER	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RESOURCE	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
RQADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SCHEDULER_ADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SELECT_CATALOG_ROLE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SODA_APP	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
SYSUMF_ROLE	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XS_CACHE_ADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XS_CONNECT	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XS_NAMESPACE_ADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
XS_SESSION_ADMIN	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

ORACLE Database Actions | Database Users User Management

Pesquisar

ADMIN REST Alivado Grafico Alivado

Alias do ORDS: admin

Último Log-in: 24/02/2023, 23:43:19 A Senha Expira em 359 dias

https://gdb1dd45990c-workshopsql.adb.sa-saopaulo-1.oraclecloudapps.com/ords/admin_sdw/

Todos os Usuários

ALUNO

Filtrar por ▾ Classificar por ▾

Tamanho da Página: 20 ▾

+ Criar Usuário

Classificar por Nome do Usuário ASC

Faça login com o novo usuário criado ALUNO

Configurar Conexão SQL Developer x Oracle Cloud

The screenshot shows the Oracle Cloud interface with the search bar at the top. The left sidebar has a 'Search' field and categories: Home, Compute, Storage, Networking, **Oracle Database** (highlighted with a red box), Databases, Analytics & AI, Developer Services, Identity & Security, Observability & Management, Hybrid, Migration, Billing & Cost Management, Governance & Administration, and Marketplace. The main content area is titled 'Oracle Database' and contains sections: Overview, Autonomous Database (highlighted with a red box), Autonomous Data Warehouse, Autonomous JSON Database, Autonomous Transaction Processing, Autonomous Dedicated Infrastructure, Oracle Base Database (VM, BM), Exadata on Oracle Public Cloud, Exadata Cloud@Customer, External Database, Data Safe, Target Databases, Security Center, Database Backups, GoldenGate, and Operator Access Control.

The screenshot shows the 'Autonomous Database' section. The left sidebar includes 'Overview', 'Autonomous Database' (highlighted with a red box), 'Dedicated infrastructure', 'Autonomous container database', 'Autonomous Exadata VM cluster', 'Exadata infrastructure', 'List scope', and 'Compartment'. The main content area shows a table titled 'Autonomous Databases in idg (root) Compartment'. It lists two databases: 'WORKSHOPSQL' (Always Free, Available, No, 1, 20 GB, Data Warehouse, Fri, Feb 24, 2023, 21:51:19 UTC) and 'meubancodedados' (Always Free, Available, No, 1, 20 GB, Data Warehouse, Mon, Dec 5, 2022, 00:59:25 UTC). A red arrow points from the 'Autonomous Database' sidebar to the 'WORKSHOPSQL' row in the table.

The screenshot shows the 'Autonomous Database details' page for 'WORKSHOPSQL'. The left sidebar includes 'Overview', 'Autonomous Database' (highlighted with a red box), and 'Autonomous Database details'. The main content area has tabs: 'Database actions' (highlighted with a red box), 'Database connection' (highlighted with a red box), 'Performance hub', 'Manage scaling', and 'More actions'. Below are sections: 'General information' (Database name: WORKSHOPSQL, Workload type: Data Warehouse, Compartiment: idg (root), OCID: ..., Created: Fri, Feb 24, 2023, 21:51:19 UTC, OCPU count: 1, OCPU auto scaling: Disabled, Storage: 20 GB, Storage auto scaling: Disabled, License type: License included, Database version: 19c, Lifecycle state: Available, Instance type: Free Upgrade to Paid), 'Infrastructure' (Dedicated infrastructure: No), 'Autonomous Data Guard' (Status: Disabled), 'Backup' (Last automatic backup: Sat, Feb 25, 2023, 08:17:25 UTC), and 'Network' (Access type: Allow secure access from everywhere, Access control list: Disabled, Mutual TLS (mTLS) authentication: Required). A red arrow points from the 'Database connection' tab to the 'Database connection' link in the 'Database actions' section.

Download da Wallet (credencial de conexão)

Database connection

Download client credentials (Wallet)

To download your client credentials, select the wallet type, and click **Download wallet**. You then enter a password for the wallet. This client credential download only contains information for mTLS connections. **You do not need a wallet for TLS connections.**

Wallet type: Instance Wallet

Download wallet **Rotate wallet**

Download Wallet

Please create a password for this wallet. Some database clients will require that you provide both the wallet and password to connect to your database (other clients will auto-login using the wallet without a password).

Password: **Confirm password:**

Download **Cancel**

Database connection

Download client credentials (Wallet)

To download your client credentials, select the wallet type, and click **Download wallet**. You then enter a password for the wallet. This client credential download only contains information for mTLS connections. **You do not need a wallet for TLS connections.**

Wallet type: Instance Wallet

Download wallet **Rotate wallet**

Wallet last rotated: -

Wallet_WORKSHO...zip

ORACLE SQL Developer

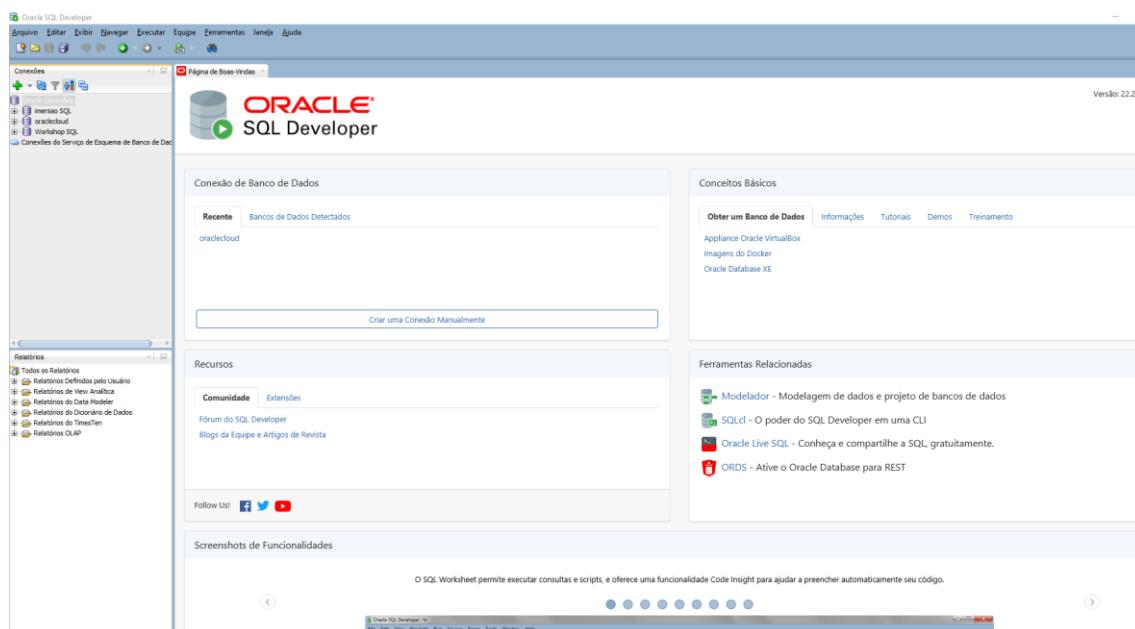
Baixar: <https://www.oracle.com/database/sqldeveloper/technologies/download/>

Não precisa instalar, apenas baixar e extrair em uma pasta

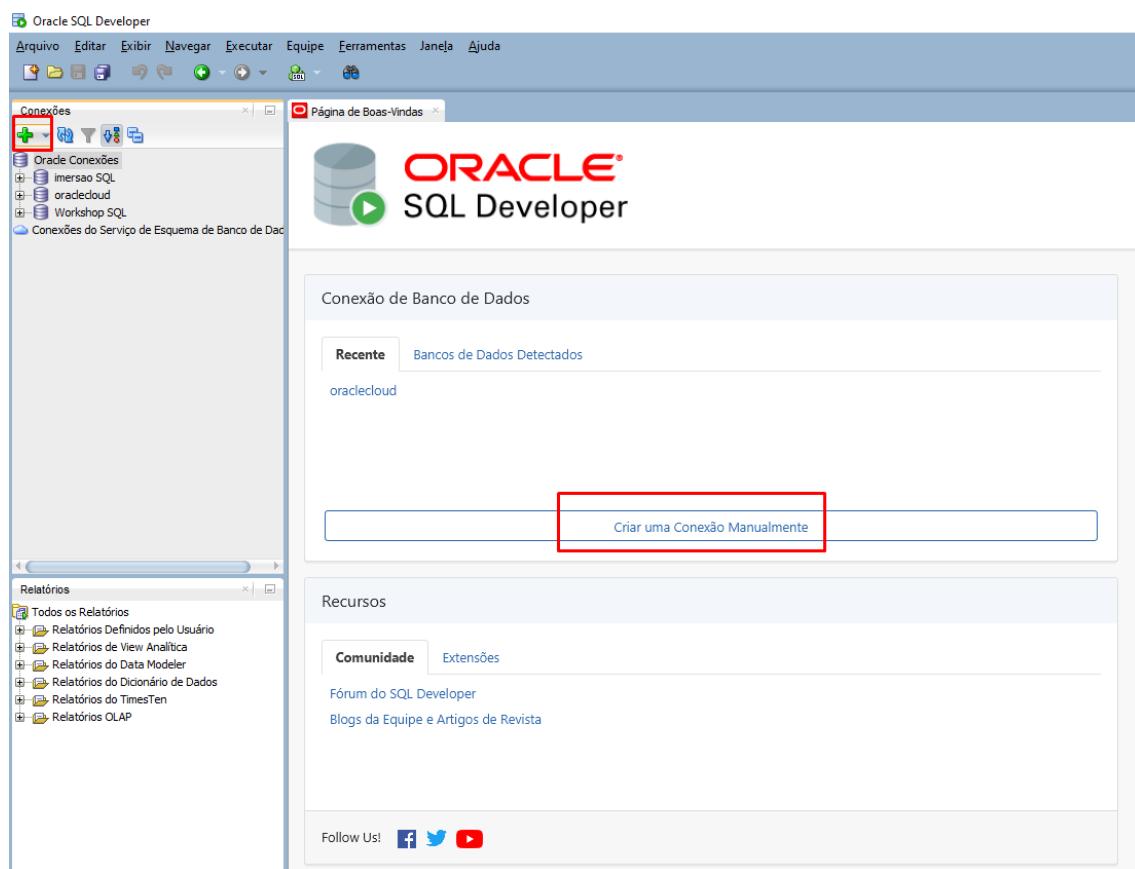
The screenshot shows the Oracle website's download page for SQL Developer. At the top, there's a navigation bar with links for Products, Industries, Resources, Customers, Partners, Developers, Events, Company, a search bar, and buttons for 'View Accounts' and 'Contact Sales'. Below the navigation, the URL 'Database / SQL Developer / SQL Developer Downloads' is visible. The main content area is titled 'SQL Developer 22.2.1 Downloads' and includes a note: 'Version 22.2.1.254.1810 - September 12, 2022'. It lists two download options:

Platform	Download	Notes
Windows 64-bit with JDK 11 included	Download (444 MB)	<ul style="list-style-type: none">MD5: c917657ae52a31af66b3cd16f100cf56SHA1: 9da21417bcd8a8fab4bba985ffd1d9087be16b2Installation Notes
Windows 32-bit/64-bit	Download (490 MB)	<ul style="list-style-type: none">MD5: 92fe45220660c178ad8656c43ea0e9e2b0a6e46b314bb5f976b42564c361d589cc2795a9Installation NotesJDK 11 required

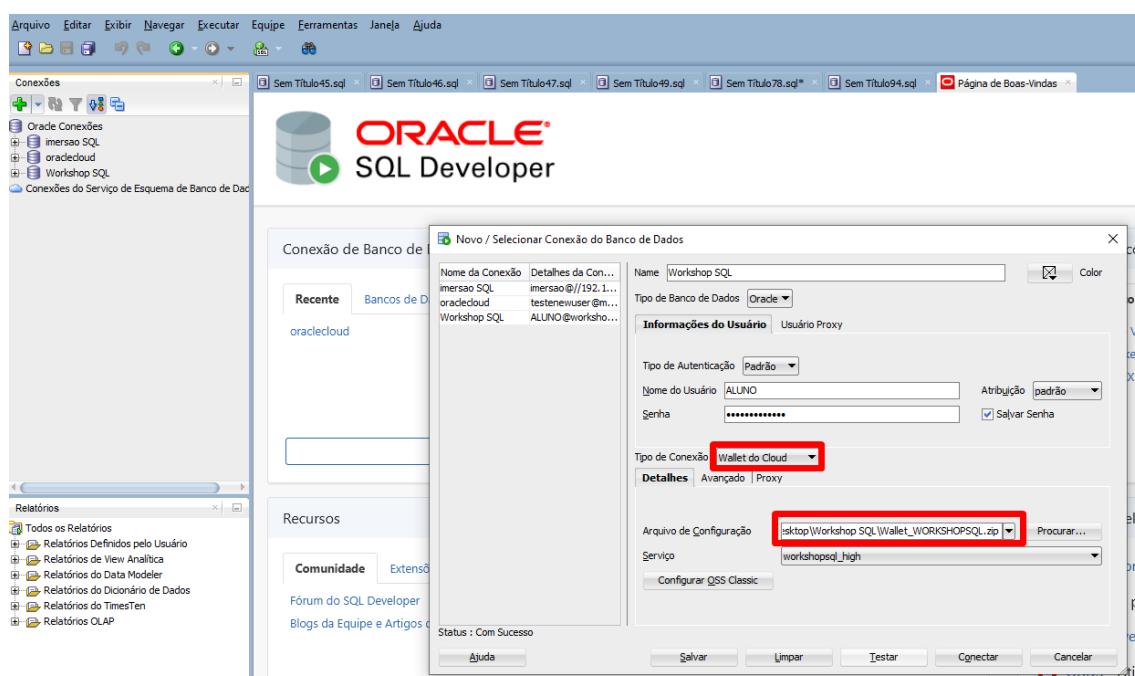
Abrir o SQL developer



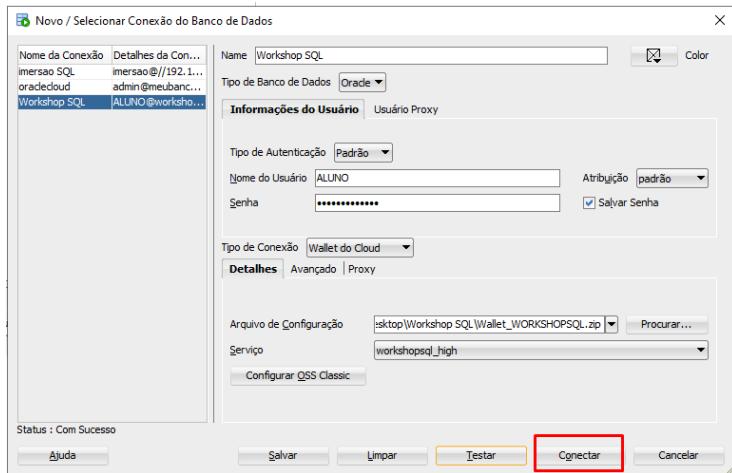
Clicar em criar uma conexão



Conexão SQL Developer > Oracle Cloud



Clique no botão salvar e depois conectar



Oracle APEX criando aplicações 20x mais rápido

General information

- Database name: WORKSHOPSQ
- Workload type: Data Warehouse
- Compartment: idg (root)
- OCID: OCID1...xe4wq Show Copy
- Created: Fri, Feb 24, 2023, 21:51:19 UTC
- OCPU count: 1
- OCPU auto scaling: Disabled ⓘ
- Storage: 20 GB
- Storage auto scaling: Disabled ⓘ
- License type: License included
- Database version: 19c
- Lifecycle state: Available
- Instance type: Free Upgrade to Paid
- Character set: AL32UTF8
- National character set: AL16UTF16
- Mode: Read/write ⓘ

APEX instance

- Instance name: WORKSHOPSQ

Infrastructure

- Dedicated infrastructure: No

Autonomous Data Guard ⓘ

- Status: Enabled ⓘ

Backup

- Last automatic backup: Sat, Feb 25, 2023, 08:17:25 UTC

Network

- Access type: Allow secure access from everywhere
- Access control list: Disabled ⓘ
- Mutual TLS (mTLS) authentication: Required ⓘ

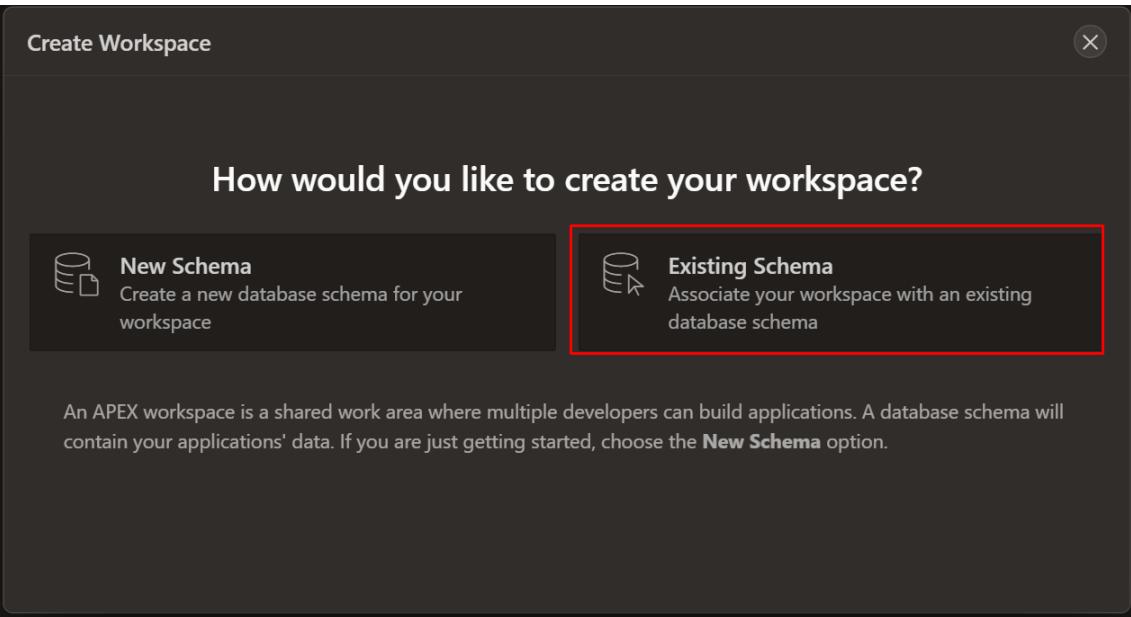
Maintenance ⓘ

- Patch level: Regular ⓘ
- Next maintenance: Sat, Mar 4, 2023, 04:00:00 UTC - 06:00:00 UTC [View history](#)
- Customer contacts: None ⓘ [Manage](#)

The screenshot shows the Oracle Cloud APEX Application Development interface. At the top, it says "APEX Application Development > APEX Instances > APEX Instance Details". The instance name is "WORKSHOPSQL" and it is labeled "Always Free". On the left, there's a large green button with "APX" in white and "AVAILABLE" below it. Below the button are tabs for "APEX instance information" and "Tags". Under "APEX instance information", there are details like OCID, Compartment, Created, APEX version, and ORDS version. To the right, there are sections for Database, Database type, Database name, Instance type, OCPU, Storage, Auto scaling, and Storage auto scaling. At the bottom, there are tabs for "Resources" and "Metrics", and a section for "Metrics" with a chart and time range selector from Feb 25, 2023 18:26:48 UTC to Feb 25, 2023 19:26:48 UTC.

Criar a Workspace clicando no botão abaixo

The screenshot shows the Oracle APEX workspace creation screen. At the top, there are navigation links for "APEX", "Manage Requests", "Manage Instance", "Manage Workspaces", and "Monitor Activity". On the right, there are user icons for "admin" and "internal". The main area has a dark background with a central icon of two crossed tools. Below the icon, the text "Welcome to Oracle APEX!" is displayed. A message encourages users to create a workspace for shared development. At the bottom, there is a prominent green button with the text "Create Workspace". At the very bottom of the page, there are footer links for "admin", "internal", and "en", along with copyright information "Copyright © 1999, 2022, Oracle and/or its affiliates." and "Oracle APEX 22.2.2".



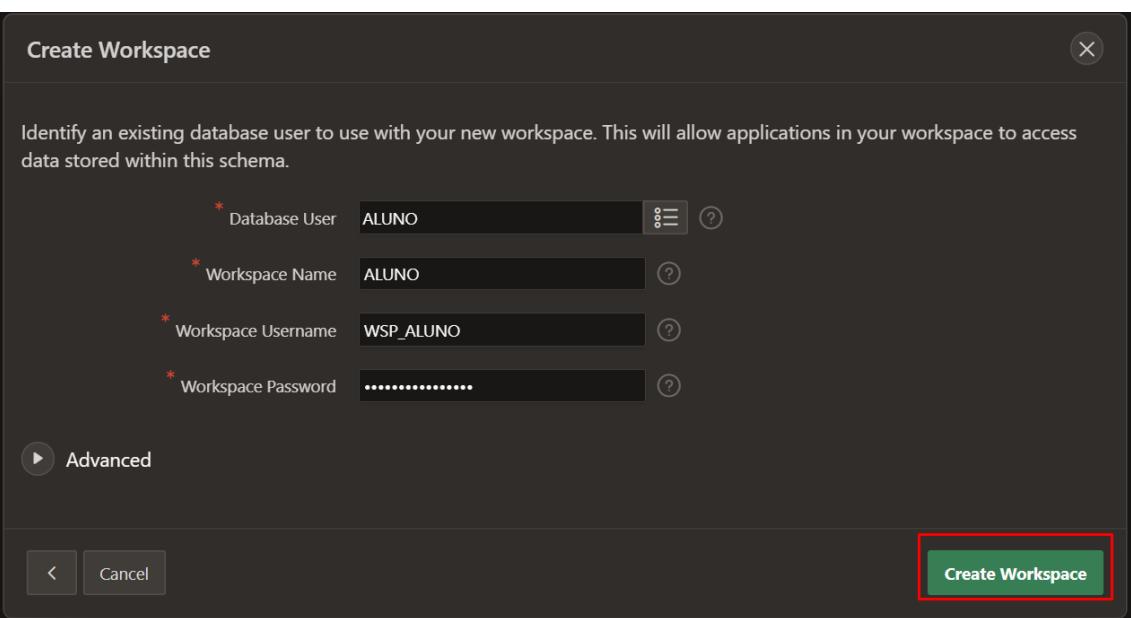
Create Workspace

Identify an existing database user to use with your new workspace. This will allow applications in your workspace to access data stored within this schema.

* Database User	ALUNO	 
* Workspace Name	ALUNO	
* Workspace Username	WSP_ALUNO	
* Workspace Password	*****	

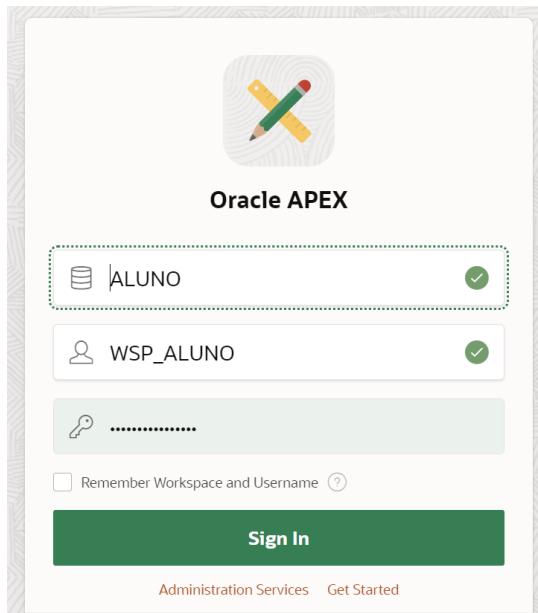
 Advanced



The screenshot shows the Oracle APEX Administration Services interface. At the top, there are tabs for Manage Requests, Manage Instance, Manage Workspaces, and Monitor Activity. On the right, there are links for About, Provisioning (Manual), Instance Tasks, Feature Configuration, Security, Instance Settings, and Workspace Tasks (Create Workspace). A message at the top states: "Workspace created. Sign out of Administration Services and sign in to ALUNO to begin building applications." Below this, there are four main sections: Manage Requests, Manage Instance, Manage Workspaces, and Monitor Activity. Under System Message, it shows Pending Requests (Provisioning Mode: Self-Service Provisioning) and Workspace Summary (Workspaces: 2, Schemas: 2, Applications: 1, Users: 2).

Clique no nome da workspace que você acabou de criar marcada em vermelho na figura acima



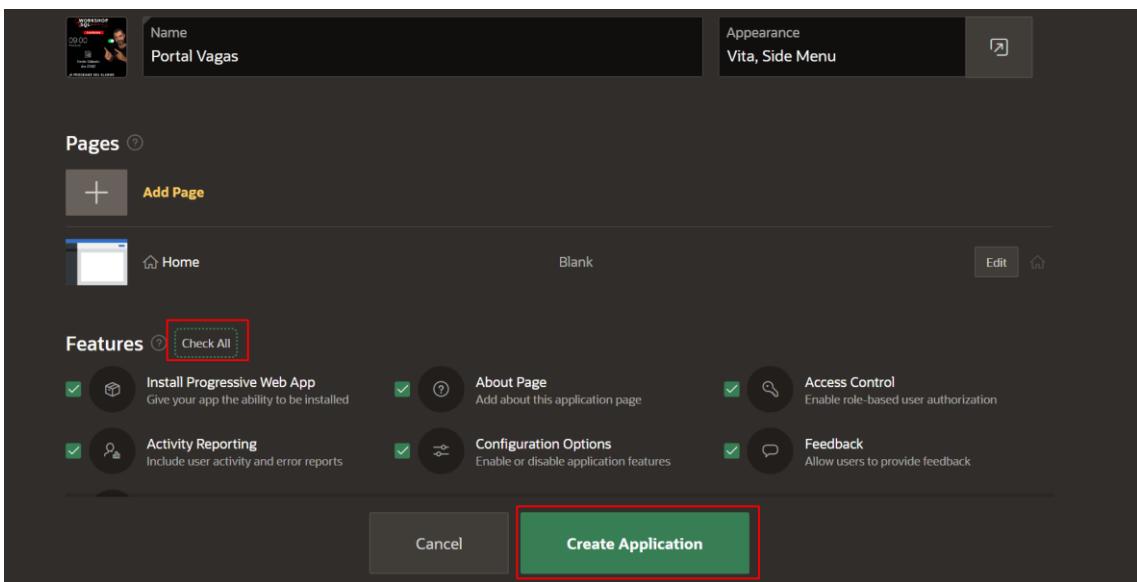
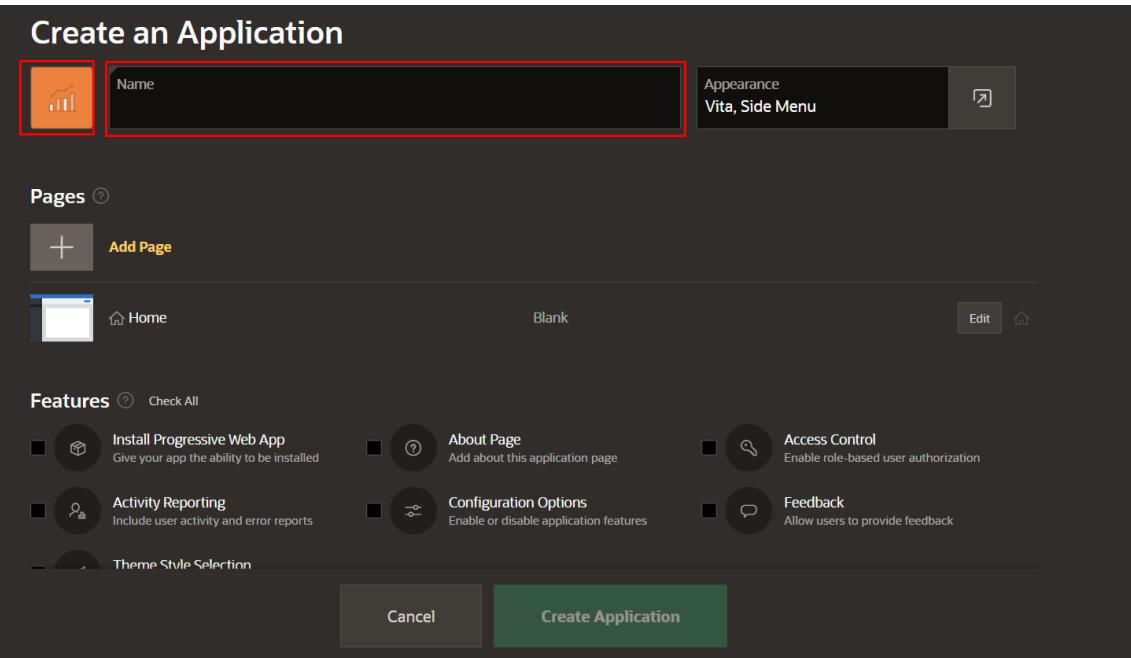
Faça o login com o usuário que você acabou de criar

The screenshot shows the Oracle APEX homepage. At the top, there's a navigation bar with links for App Builder, SQL Workshop, Team Development, and Gallery. A search bar is also present. On the right side, there's a user profile for "wsp_aluno". Below the navigation, there are four main sections: "App Builder" (with a plus icon), "SQL Workshop" (with a green arrow icon), "Team Development" (with an orange exclamation icon), and "Gallery" (with a red download icon). The "Top Apps" section shows a list of applications, with "wsp_aluno" at the top. The "Summary" section displays statistics: 0 Applications, 6 Tables, and 1 Developers. The "Workspace Message" section indicates "No Workspaces Message". On the far right, there are sections for "About", "Learn More", and "Social" links.

This screenshot shows the Oracle APEX App Builder homepage. It features a "Get Started Now" section with two main options: "Create a New App" (green button) and "Install a Starter or Sample App" (black button). Below this, there are four utility icons: "Create" (plus sign), "Import" (up arrow), "Dashboard" (blue square with a question mark), and "Workspace Utilities" (blue square with a gear). The right sidebar contains sections for "About" (describing the App Builder), "Recent" (listing no applications), and "Tasks" (links for Manage Backups and Browse by Facets).

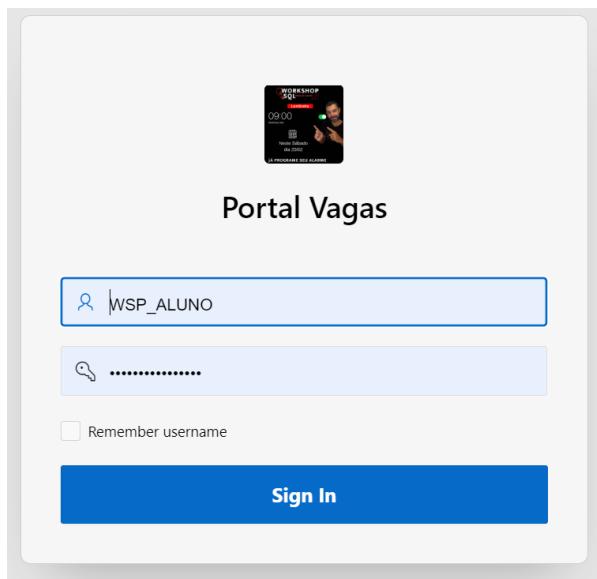
This screenshot shows the "Create an Application" page. It has three main options: "New Application" (highlighted with a red border), "From a File", and "Starter App". Each option has a brief description and a corresponding icon. At the bottom, there are links for Quick SQL, Copy Application, and Help, along with the URL https://g0bd1dc459590c-wsopaulo-1.oraclecloudapps.com/ords/rfp=40201:132614563279823:NEW=1,5,130,150,170,250. The page also includes a note about Oracle trademarks and a footer for Oracle APEX 22.2.

Escolha um nome para sua aplicação e se quiser escolha uma imagem para o seu logo

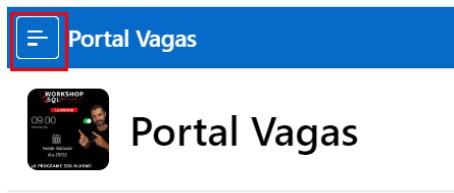


The screenshot shows the Oracle APEX App Builder interface. At the top, there are navigation tabs: APEX, App Builder, SQL Workshop, Team Development, and Gallery. On the right, there are icons for search, help, and user profile (ws_wsp_aluno). Below the tabs, the title 'Application 100' is displayed, followed by 'Application 100 - Portal Vagas'. There are several buttons: 'Edit Application Definition', 'Run Application' (which is highlighted with a red box), 'Supporting Objects', 'Shared Components', 'Utilities', and 'Export / Import'. A search bar and a 'Create Page >' button are also present. To the right, there's an 'About' section with instructions on running, editing, importing, exporting, or deleting the application, and a 'Learn More ...' link. The 'Tasks' section includes options like 'Delete this Application', 'Copy this Application', 'Add Feature Page', 'Manage Backups', and 'Browse by Facets'. The 'Recently Edited Pages' section lists '10000. Administration' and '10051. Feedback Submitted'. At the bottom, a URL is shown: <https://g0bd1dc5459590c-workshopsql.adb.sa-saopaulo-1.oraclecloudapps.com/ords/f?p=10000:1>.

Pronto! Nossa aplicação já está criada faça o login



Clique no menu hamburguer para aparecer o menu com as opções



Volte na tela inicial do APEX e agora vamos criar uma nova página de cadastro de empresas

The screenshot shows the APEX application home page for "Application 100 - Portal Vagas". At the top, there are tabs for "APEX", "App Builder", "SQL Workshop", "Team Development", and "Gallery". A search bar and user profile "wsp_aluno" are also at the top. Below the header, there are five main navigation links: "Run Application", "Supporting Objects", "Shared Components", "Utilities", and "Export / Import". A "Create Page >" button is highlighted with a red box. The main content area displays various page icons with labels: "0 - Global Page", "1 - Home", "9999 - Login Page", "10000 - Administration", "10010 - Configuration Options", and others. On the right side, there are sections for "About", "Tasks", and "Recently Edited Pages".

The screenshot shows the "Create a Page" wizard. The title bar says "Create a Page". Below it is a tab bar with "Component" selected, followed by "Feature" and "Legacy Pages". The main area contains a grid of page component icons:

Blank Page	Calendar	Cards	Chart	Dashboard
Faceted Search	Smart Filters	Form	Interactive Grid	Interactive Report
Map	Search Page	Master Detail	Classic Report	Plug-in Page

The "Interactive Grid" icon is highlighted with a red box. At the bottom left are "Cancel" and "Help" buttons, and at the bottom right is a "Next >" button, which is also highlighted with a red box.

Create Interactive Grid

Page Number (?

* Name (?

Page Mode Normal Modal Dialog Drawer (?

Include Form Page (?)

* Form Page Number (?)

* Form Page Name (?)

Form Page Mode Normal Modal Dialog Drawer (?)

Data Source

Data Source Local Database REST Enabled SQL Service REST Data Source (?)

Source Type Table SQL Query (?)

* Table / View Owner (?)

* Table / View Name (?)

< Cancel Next >

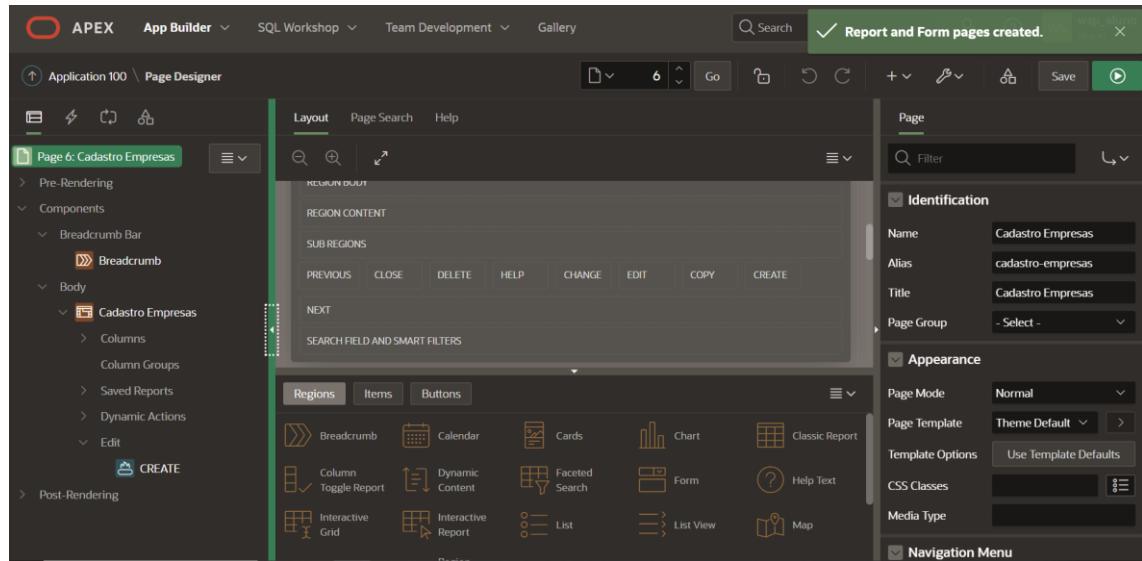
Create Interactive Grid

Primary Key

* Primary Key Column 1 (?)

Primary Key Column 2 (?)

< Cancel Create Page

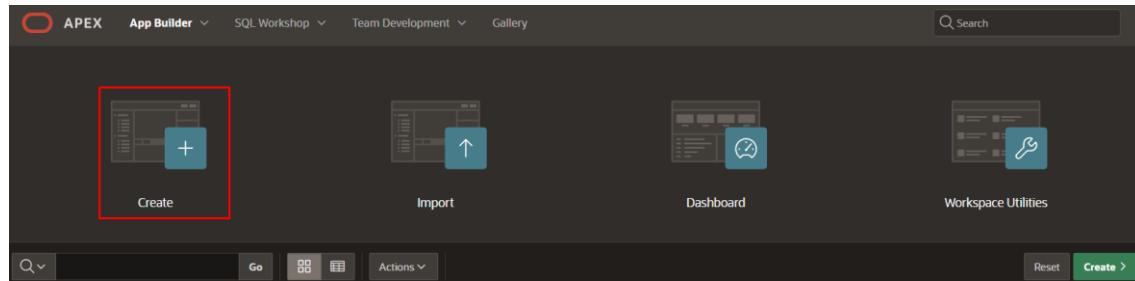


Pronto veja abaixo como ficou a nossa tela de Cadastro de Empresas

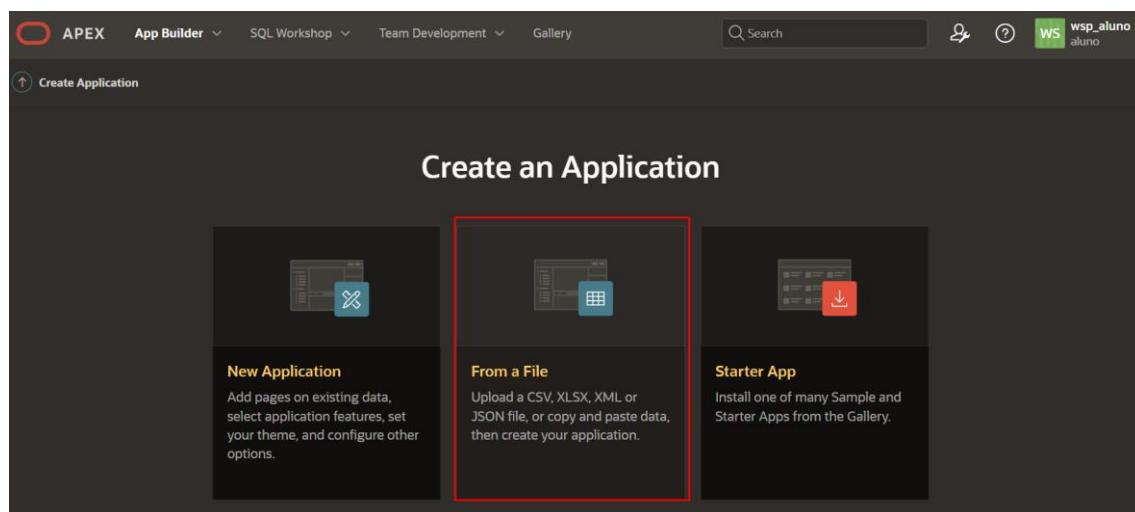
Cnpj	Razao Social	Nome Fantasia	Email	Contato	Nome Contato	Sobre Empresa	Data Criacao	Data Atualizacao
05.623.414/...	Oracle do B...	Oracle do B...	rh@oracle.c...	11 5189-1000	Paulo	Fundada e...	2/25/2023	2/25/2023
44.772.123/...	Dell Corpor...	Dell Compu...	rh@dell.com	51 3210-1234	Pedro	Aqui na Dell...	2/25/2023	2/25/2023
12.542.221/...	Accenture C...	Accenture B...	rh@accentu...	11 3322-1234	Maria	Somos um t...	2/25/2023	2/25/2023

Agora vamos transformar uma planilha de Excel em uma aplicação

Volte na tela principal e Clique no botão [Create]



Escolha a opção marcada abaixo



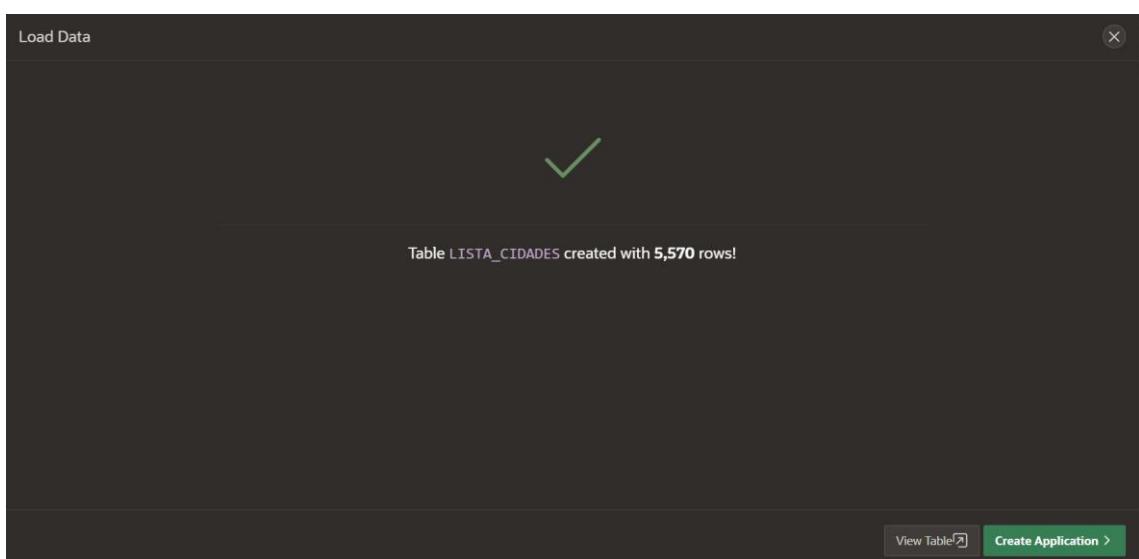
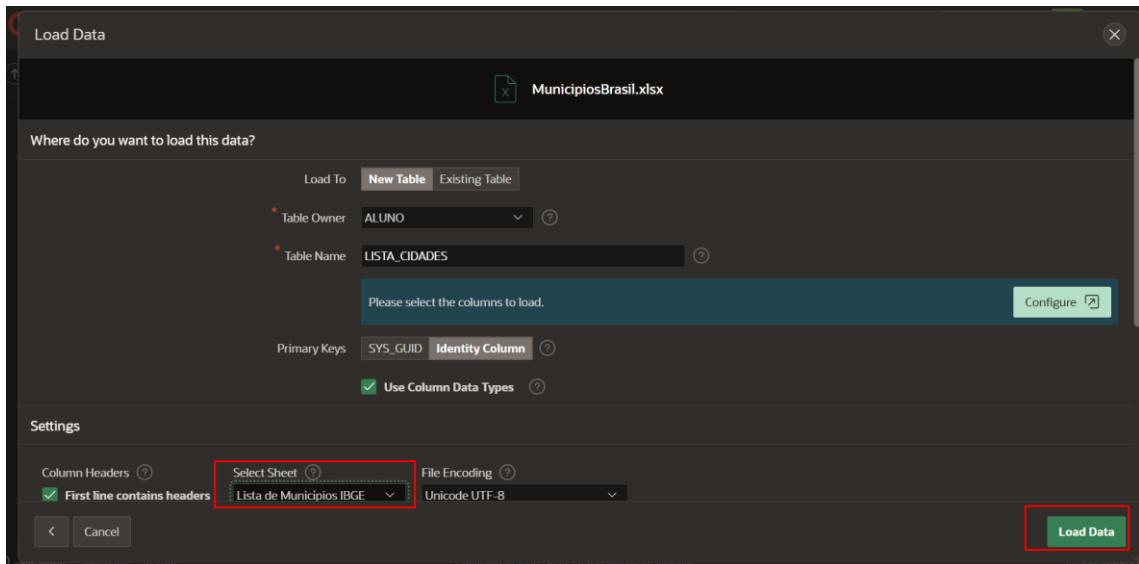
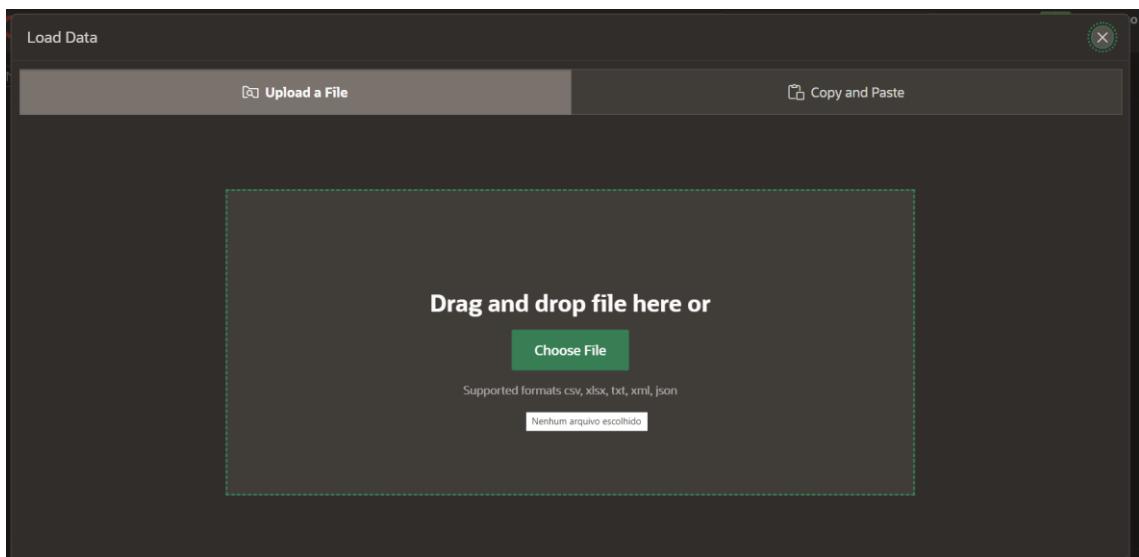
Exemplo da planilha que irei utilizar baixe ela no link abaixo se quiser utilizar a mesma

IBGE	IBGE7	UF	Municipio	Regiao	Populacao_2010	Porte	Capital
2	110001	RO	Alta Floresta D'este	Regiao Norte	24392	Pequeno II	
3	110002	RO	Ariquemes	Regiao Norte	90353	Medio	
4	110003	RO	Calumbi	Regiao Norte	6333	Pequeno I	
5	110004	RO	Catandu	Regiao Norte	78374	Medio	
6	110005	RO	Cerejeiras	Regiao Norte	17029	Pequeno I	
7	110006	RO	Colorado do Oeste	Regiao Norte	18591	Pequeno I	
8	110007	RO	Corumbani	Regiao Norte	8783	Pequeno I	
9	110008	RO	Costa Marques	Regiao Norte	13678	Pequeno I	
10	110009	RO	Espirito D oeste	Regiao Norte	20792	Pequeno II	
11	110010	RO	Guaiau-Mirim	Regiao Norte	41656	Pequeno II	
12	110011	RO	Jaru	Regiao Norte	52005	Medio	
13	110012	RO	Ji-paraná	Regiao Norte	116610	Grande	
14	110013	RO	Machadinho D oeste	Regiao Norte	31135	Pequeno II	
15	110014	RO	Novo Brasil da Serra D oeste	Regiao Norte	19874	Pequeno I	
16	110015	RO	Ouro Preto do Oeste	Regiao Norte	37938	Pequeno II	
17	110018	RO	Pimenta Bueno	Regiao Norte	33822	Pequeno II	
18	110020	RO	Porto Velho	Regiao Norte	428527	Grande	Capital
19	110024	RO	Presidente Medici	Regiao Norte	22319	Pequeno II	
20	110026	RO	Rio Crespo	Regiao Norte	3116	Pequeno I	
21	110027	RO	Rondonópolis	Regiao Norte	50048	Medio	
22	110029	RO	Santa Lusia D oeste	Regiao Norte	8886	Pequeno I	
23	110029	RO	Vilhena	Regiao Norte	76202	Medio	
24	110032	RO	São Miguel do Guaporé	Regiao Norte	21828	Pequeno II	
25	110033	RO	Nova Mamoré	Regiao Norte	22546	Pequeno II	
26	110034	RO	Alto Acre D oeste	Regiao Norte	16653	Pequeno I	
27	110037	RO	Alto Alegre Dos Parecis	Regiao Norte	12016	Pequeno I	
28	110040	RO	Alto Parádo	Regiao Norte	17135	Pequeno I	
29	110042	RO	Buritis	Regiao Norte	32383	Pequeno II	
30	110050	RO	Novo Horizonte do Oeste	Regiao Norte	10240	Pequeno I	
31	110051	RO	Cacaulândia	Regiao Norte	5736	Pequeno I	
32	110070	RO	Caracaraí de Rondônia	Regiao Norte	12660	Pequeno I	
33	110089	RO	Candeias do Jamari	Regiao Norte	19779	Pequeno I	
34	110090	RO	Castanheiras	Regiao Norte	3575	Pequeno I	
35	110092	RO	Chupinguaia	Regiao Norte	8301	Pequeno I	
36	110094	RO	Cujubim	Regiao Norte	15854	Pequeno I	
37	110101	RO	Guaporé do Igua Teixeira	Regiao Norte	10512	Pequeno I	
38	110110	RO	Irapuã do Oeste	Regiao Norte	8566	Pequeno I	
39	110120	RO	Ministro Andreazza	Regiao Norte	10352	Pequeno I	
40	110130	RO	Mirante da Serra	Regiao Norte	11878	Pequeno I	

Download da Planilha:

https://docs.google.com/spreadsheets/d/18yBecQh7jsLA7dKxQni0EWEX_L-nm_xm/edit?usp=share_link&ouid=107601588577641931584&rtpof=true&sd=true

Selecione a planilha na pasta do seu computador



APEX App Builder SQL Workshop Team Development Gallery

Name: Lista Cidades Appearance: Vita, Side Menu

Pages: Add Page

Home: Blank Edit

Dashboard: Dashboard Edit

Create Application

Clique em Run Application

Application 101

Application 101 - Lista Cidades

Edit Application Definition

About

Run Application Supporting Objects Shared Components Utilities Export / Import

Create Page >

0 - Global Page 1 - Home 2 - Dashboard 3 - Lista Cidades Search 4 - Lista Cidades Report

5 - Lista Cidade

Tasks

Recently Edited Pages

Pronto! Veja abaixo a nossa aplicação

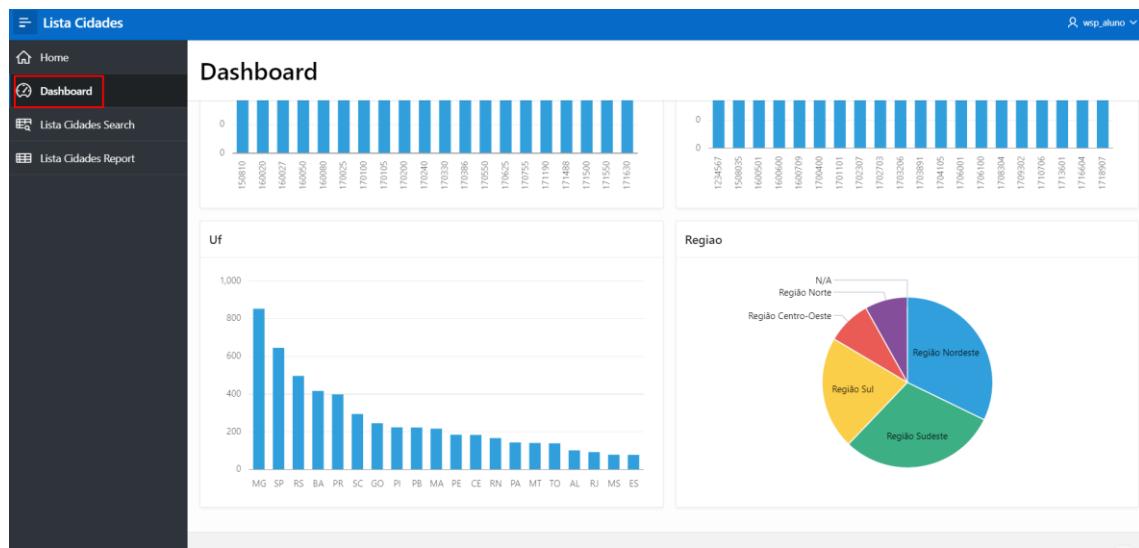
Lista Cidades

Home Dashboard Lista Cidades Search Lista Cidades Report

Lista Cidades

Dashboard Lista Cidades Search Lista Cidades Report

Ele já criou até alguns relatórios básicos, que depois você pode customizar



Tela de pesquisa

The search interface includes filters for:

- Regiao:** Região Nordeste (1.794), Região Sudeste (1.668), Região Sul (1.191), Região Centro-Oeste (467), Região Norte (450).
- Porte:** Pequeno I (3.919), Pequeno II (1.043), Médio (325), Grande (266), Metrópole (17), Pequeno (1).
- Uf:** MG (853), SP (646).

The main table shows a total row count of 5,572 with columns: Ibge, Ibge7, Uf, Municipio, Regiao, Populacao 2010, Porte, and Capital. Some sample data rows include:

Ibge	Ibge7	Uf	Municipio	Regiao	Populacao 2010	Porte	Capital
150.795	1,507,953	PA	Taiândia	Região Norte	79.297	Médio	
150.796	1,507,961	PA	Terra Alta	Região Norte	10.262	Pequeno I	
150.797	1,507,979	PA	Terra Santa	Região Norte	16.949	Pequeno I	
150.800	1,508,001	PA	Tomé-açu	Região Norte	56.518	Médio	
150.803	1,508,035	PA	Tracuateua	Região Norte	27.455	Pequeno II	
150.805	1,508,050	PA	Trairão	Região Norte	16.875	Pequeno I	
150.808	1,508,084	PA	Tucumã	Região Norte	33.690	Pequeno II	
150.810	1,508,100	PA	Tucurui	Região Norte	97.128	Médio	
150.812	1,508,126	PA	Ulianópolis	Região Norte	43.341	Pequeno II	
150.815	1,508,159	PA	Ururá	Região Norte	44.789	Pequeno II	
150.820	1,508,209	PA	Vigia	Região Norte	47.889	Pequeno II	
150.830	1,508,308	PA	Viseu	Região Norte	56.716	Médio	
150.835	1,508,357	PA	Vitória do Xingu	Região Norte	13.431	Pequeno I	
150.840	1,508,407	PA	Xinguara	Região Norte	40.573	Pequeno II	

E tela de manipulação de dados

The report page shows a table of city data with columns: Ibge, Ibge7, Uf, Municipio, Regiao, Populacao 2010, Porte, and Capital. A 'Create' button is visible at the top right. Sample data rows include:

Ibge	Ibge7	Uf	Municipio	Regiao	Populacao 2010	Porte	Capital
110.001	1,100,015	RO	Alta Floresta D'oceste	Região Norte	24.392	Pequeno II	
110.002	1,100,023	RO	Ariquemes	Região Norte	90.353	Médio	
110.003	1,100,031	RO	Cabixi	Região Norte	6.313	Pequeno I	
110.004	1,100,049	RO	Cacoal	Região Norte	78.574	Médio	
110.005	1,100,056	RO	Cerejeiras	Região Norte	17.029	Pequeno I	
110.006	1,100,064	RO	Colorado do Oeste	Região Norte	18.591	Pequeno I	
110.007	1,100,072	RO	Corumbiara	Região Norte	8.783	Pequeno I	
110.008	1,100,080	RO	Costa Marques	Região Norte	13.678	Pequeno I	
110.009	1,100,098	RO	Espigão D' oeste	Região Norte	28.729	Pequeno II	

Clique no ícone do lápis para alterar ou deletar uma cidade

Lista Cidades

- Home
- Dashboard
- Lista Cidades Search**
- Lista Cidades Report**

Lista Cidades Report

	Ibge ↑↓	Ibge7	UF	Municipio	Regiao	Populacao 2010	Porte	Capital
	110.001	1,100.015	RO	Alta Floresta D'oceste	Região Norte	24.392	Pequeno II	
	110.002	1,100.023	RO	Anquemes	Região Norte	90.353	Médio	
	110.003	1,100.031	RO	Cabixi	Região Norte	6.313	Pequeno I	
	110.004	1,100.049	RO	Cacoal	Região Norte	78.574	Médio	
	110.005	1,100.056	RO	Cerejeiras	Região Norte	17.029	Pequeno I	
	110.006	1,100.064	RO	Colorado do Oeste	Região Norte	18.591	Pequeno I	
	110.007	1,100.072	RO	Corumbiara	Região Norte	8.783	Pequeno I	
	110.008	1,100.080	RO	Costa Marques	Região Norte	13.678	Pequeno I	
	110.009	1,100.088	RN	Ferreira D'oceste	Região Norte	28.739	Pequeno II	

Lista Cidade X

Ibge
110001

Ibge7
1100015

UF
RO

Municipio
Alta Floresta D'oceste

Regiao
Região Norte

Populacao 2010
24392

Porte
Pequeno II

Capital

General Delete Quick Edit Customize Apply Changes

Clique no botão azul [create] para criar uma nova cidade

The screenshot shows a web application interface. On the left, there is a sidebar with navigation links: Home, Dashboard, Lista Cidades Search, and Lista Cidades Report (which is currently selected). The main area has a title "Lista Cidades Report". Below it is a search bar with fields for "Ibge", "Ibge7", "Uf", "Municipio", "Regiao", "Populacao 2010", "Porte", and "Capital". A blue "Create" button is located at the top right of the table header. The table lists 10 rows of city data. At the bottom of the page, there is a "Create" button and a row of icons.

Ibge	Ibge7	Uf	Municipio	Regiao	Populacao 2010	Porte	Capital
110,001	1,100,015	RO	Alta Floresta D'este	Região Norte	24.392	Pequeno II	
110,002	1,100,023	RO	Ariquemes	Região Norte	90.353	Médio	
110,003	1,100,031	RO	Cabixi	Região Norte	6.313	Pequeno I	
110,004	1,100,049	RO	Cacoal	Região Norte	78.574	Médio	
110,005	1,100,056	RO	Cerejeiras	Região Norte	17.026	Pequeno I	
110,006	1,100,064	RO	Colorado do Oeste	Região Norte	18.591	Pequeno I	
110,007	1,100,072	RO	Corumbá	Região Norte	8.783	Pequeno I	
110,008	1,100,080	RO	Costa Marques	Região Norte	13.678	Pequeno I	

Digite os dados da nova cidade e clique no botão Create para confirmar



GOSTOU DISSO? Quer aprender mais e ter o meu acompanhamento?

Acesse: <http://sqlexpert.com.br>

Torne-se membro da Comunidade SQL Expert