

ORACLE
University

Oracle Database

Describe Oracle's Data Toolset

Autonomous Database with Built-In Tools Benefits All Players



Data Analysis in the Traditional Market

Best-of-breed, enterprise-class tools, tailored for the specialist

Oracle Data
Integrator

Data
load

Oracle
Enterprise
Data Quality

Data
prep



Semantic
modeling

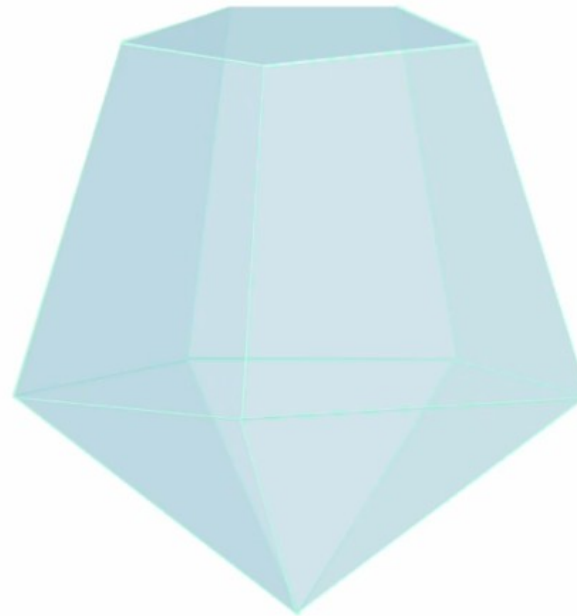


Data
analysis

Whole > Sum (Parts)

Benefits of integration are multifaceted

- Integrated toolset
 - Preassembled
 - Preconfigured
 - Pre-deployed
 - Consistent UX
 - Best practices instantiated
- Common components
 - Business model
 - Catalog

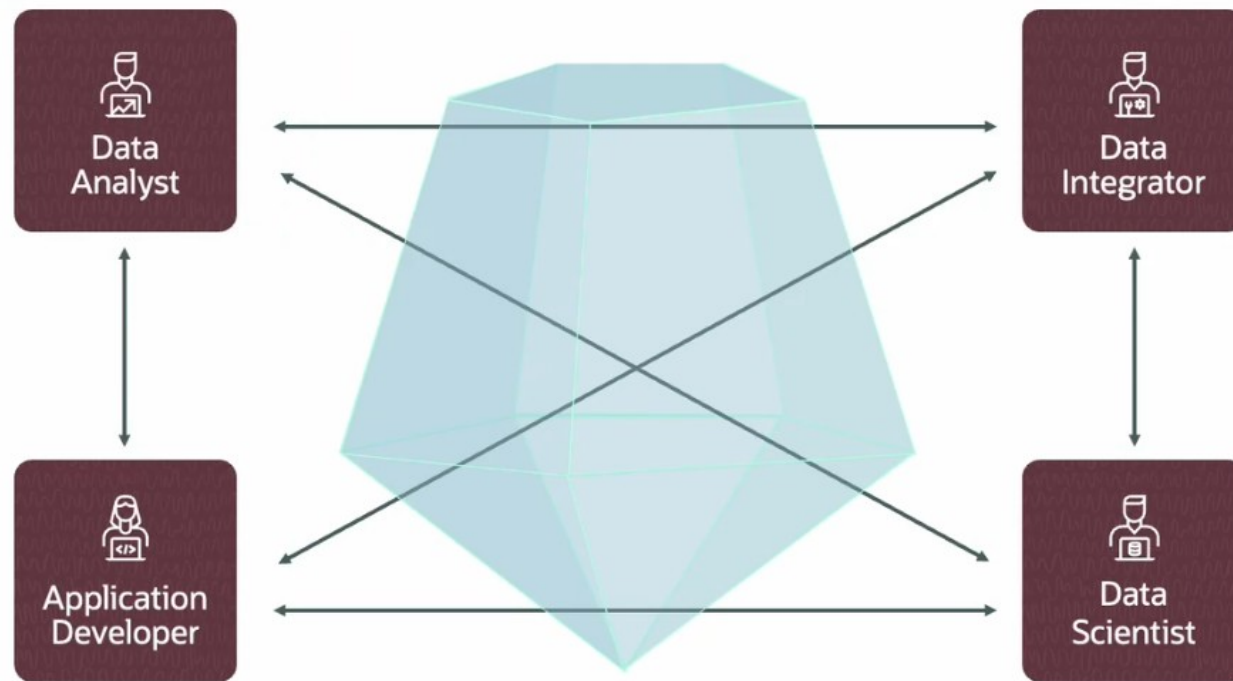


- Integrated data
 - Federated model
 - Common catalog
 - Silos eliminated
 - Common data sources
 - Confidence in lineage
 - Impact analysis

Collaboration by design

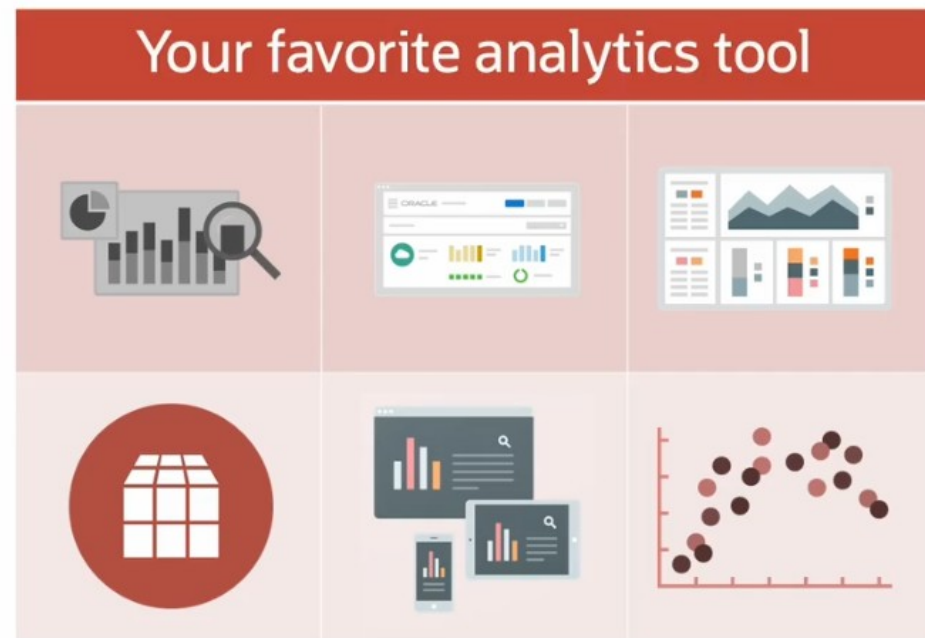
Whole > Sum (Parts)

Collaboration by design



Derive Insights from Data

Open platform – nothing new to learn



Built-In Tool Suite

Nothing more to buy or install

ORACLE Cloud Search for resources, services, and documentation US West (Phoenix) [Icons]

Overview » Autonomous Database » Autonomous Database Details

MOVIESTREAM_PGW

Database Actions DB Connection Performance Hub Service Console More Actions

Autonomous Database Information **Tools** Tags

Database administration and developer tools for Autonomous Database

Oracle Application Express

Oracle Application Express (APEX) is a low-code development platform that enables you to build scalable, secure enterprise apps that can be deployed anywhere. [Learn more.](#)

Open APEX

Oracle ML User Administration

Oracle Machine Learning is a development environment that uses a web-based interface to enable you to perform data analytics, data discovery and data visualizations. [Learn more.](#)

Open Oracle ML User Administration

SODA Drivers

Simple Oracle Document Access (SODA) is a set of APIs that let you work with JSON documents managed by the Oracle Database without needing to use SQL. SODA drivers are available for REST, Java, Node.js, Python, PL/SQL, and C. [Learn more.](#)

Download SODA Drivers

Graph Studio

Oracle Graph Studio lets you create property graph databases and automates the creation of graph models and in-memory graphs from database tables. To access Graph Studio, you must log in as a graph-enabled database user. Create this user in Database Actions. [Learn more.](#)

Open Graph Studio

Resources Metrics

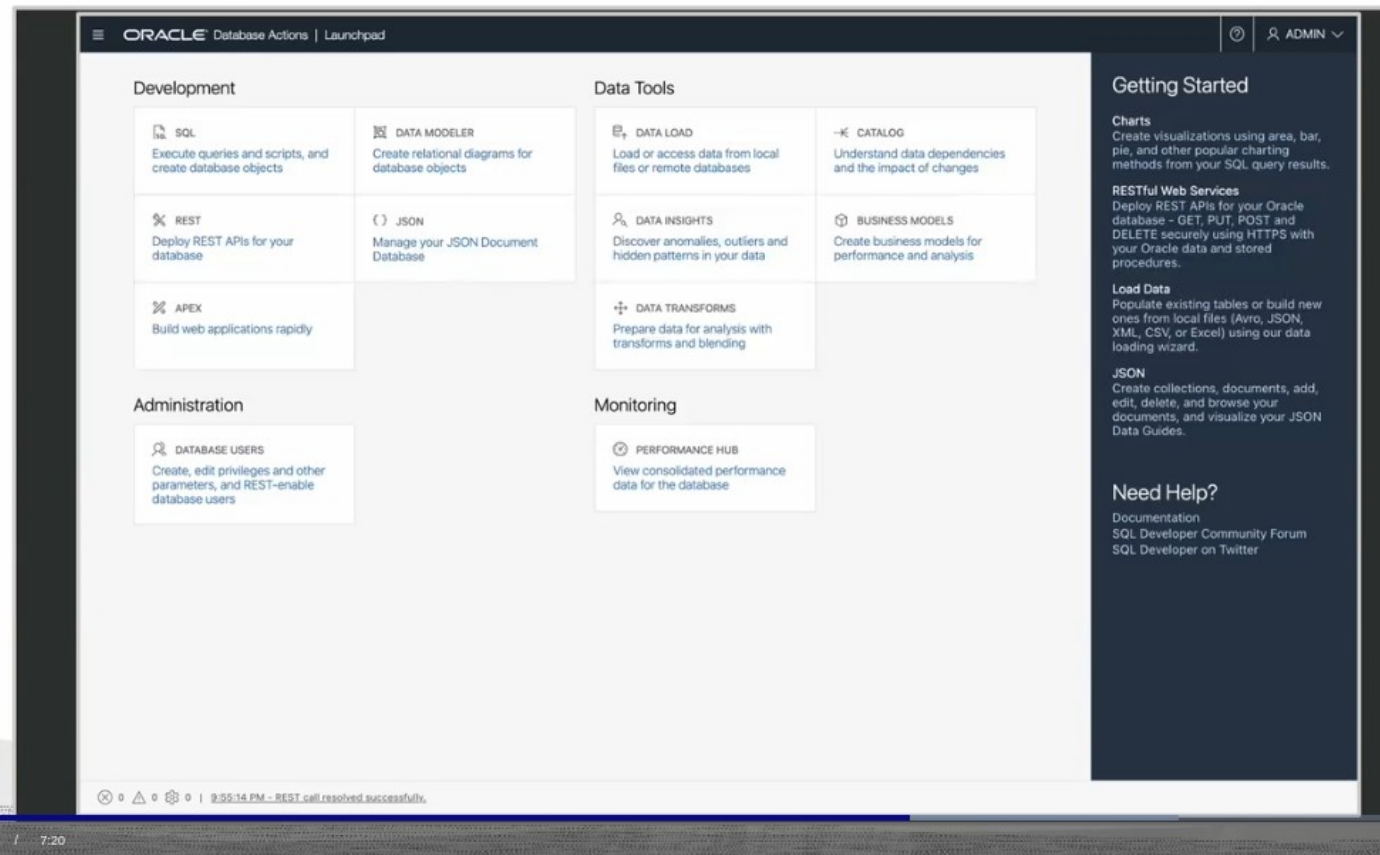
Start time End time Quick Selects

[Terms of Use and Privacy](#) [Cookie Preferences](#)

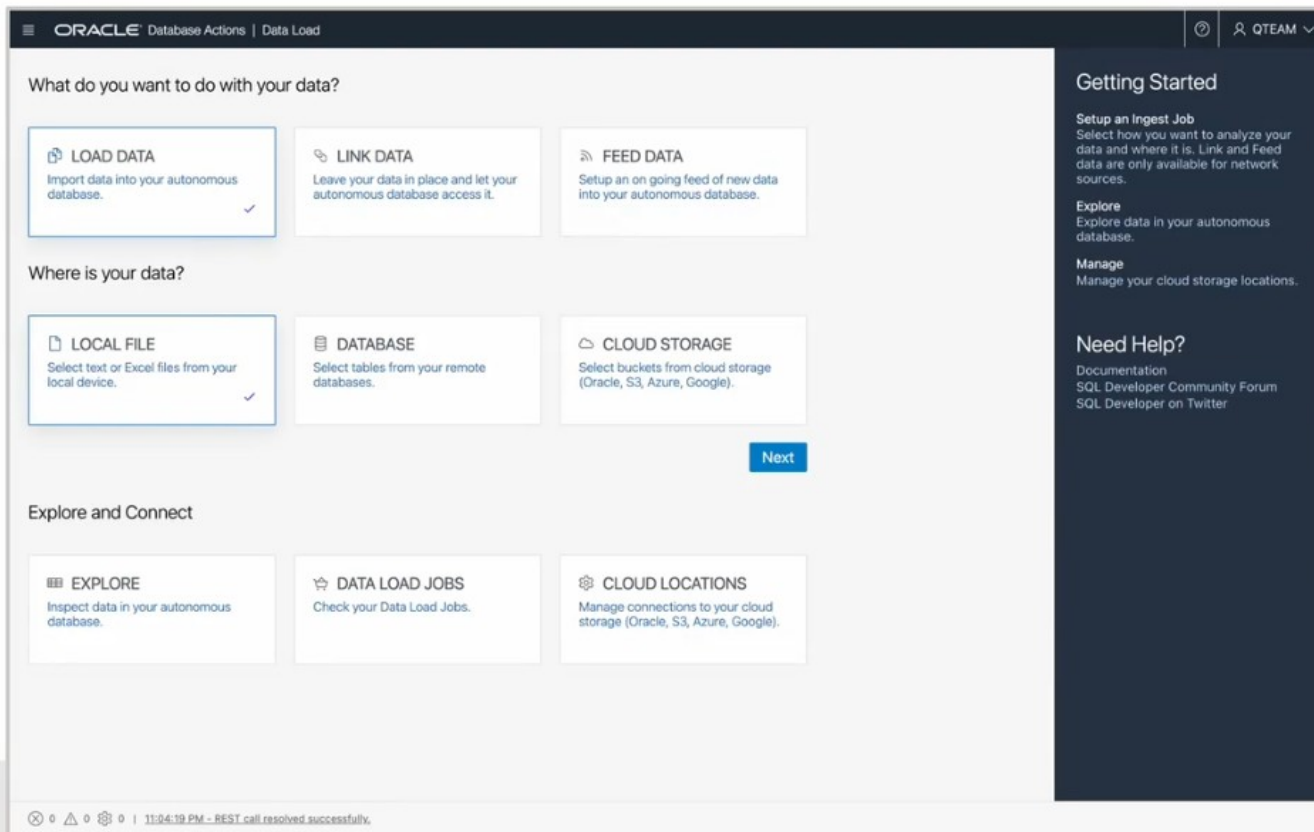
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Built-In Tool Suite

Nothing more to buy or install



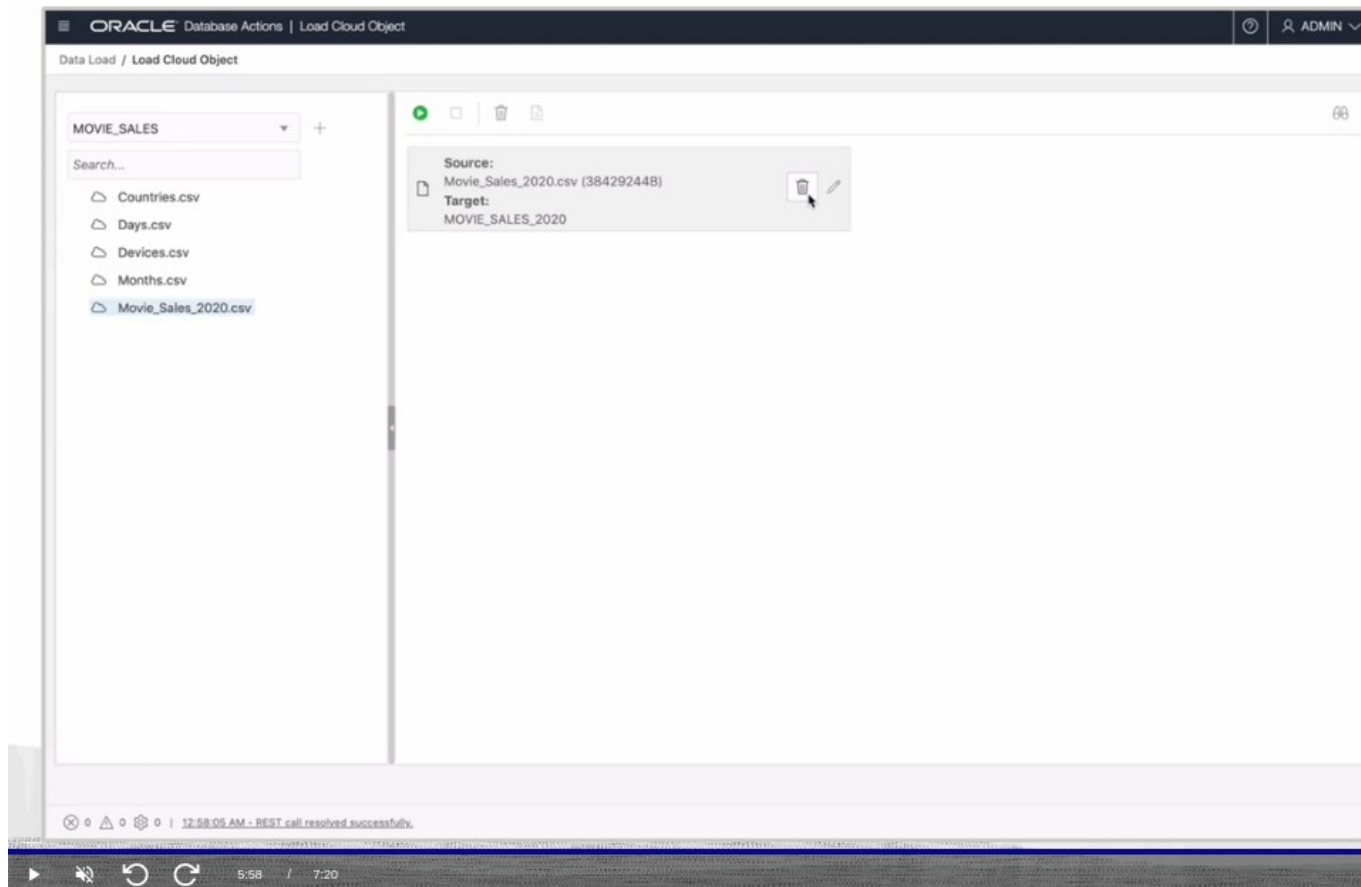
Data Load



Simple “drag-and-drop” data loading

- Files on local computer
- Files in Cloud Storage (including AWS S3 and Azure Blob Storage)
- Oracle Databases (on premises and in cloud)

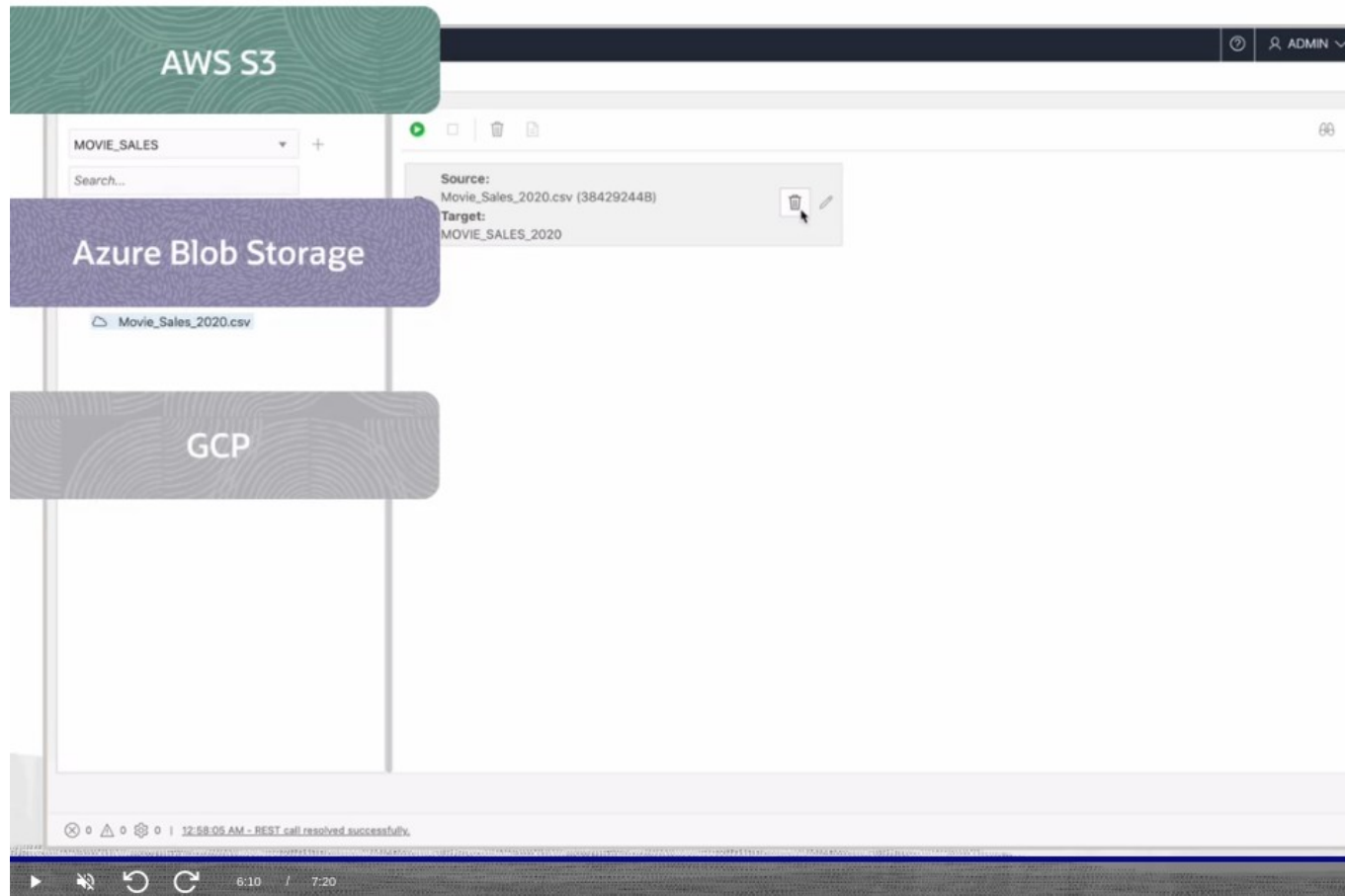
Data Load



Drag-and-drop data load:

- From local files
- From Object Storage

Data Load



Drag-and-drop data load:

- From local files
- From Object Storage

OCI
object store

Data Load

The screenshot shows the Oracle Database Actions Data Load interface. The top navigation bar includes the Oracle logo, 'Database Actions | Data Load', and a user profile 'QTEAM'. The main content area is divided into three sections: 'What do you want to do with your data?', 'Where is your data?', and 'Explore and Connect'. Each section contains three cards. In the 'What do you want to do with your data?' section, the 'LOAD DATA' card is selected. In the 'Where is your data?' section, the 'LOCAL FILE' card is selected. A blue 'Next' button is located below the 'Where is your data?' section. The 'Explore and Connect' section contains three cards: 'EXPLORE', 'DATA LOAD JOBS', and 'CLOUD LOCATIONS'. A dark sidebar on the right contains the 'Getting Started' section with links for 'Setup an Ingest Job', 'Explore', and 'Manage', followed by a 'Need Help?' section with links for 'Documentation', 'SQL Developer Community Forum', and 'SQL Developer on Twitter'. To the right of the sidebar, the text 'Profile data after loading.' is followed by a bulleted list of instructions.

What do you want to do with your data?

- LOAD DATA**
Import data into your autonomous database. ✓
- LINK DATA**
Leave your data in place and let your autonomous database access it.
- FEED DATA**
Setup an on going feed of new data into your autonomous database.

Where is your data?

- LOCAL FILE**
Select text or Excel files from your local device. ✓
- DATABASE**
Select tables from your remote databases.
- CLOUD STORAGE**
Select buckets from cloud storage (Oracle, S3, Azure, Google).

Next

Explore and Connect

- EXPLORE**
Inspect data in your autonomous database.
- DATA LOAD JOBS**
Check your Data Load Jobs.
- CLOUD LOCATIONS**
Manage connections to your cloud storage (Oracle, S3, Azure, Google).

Getting Started

Setup an Ingest Job
Select how you want to analyze your data and where it is. Link and Feed data are only available for network sources.

Explore
Explore data in your autonomous database.

Manage
Manage your cloud storage locations.

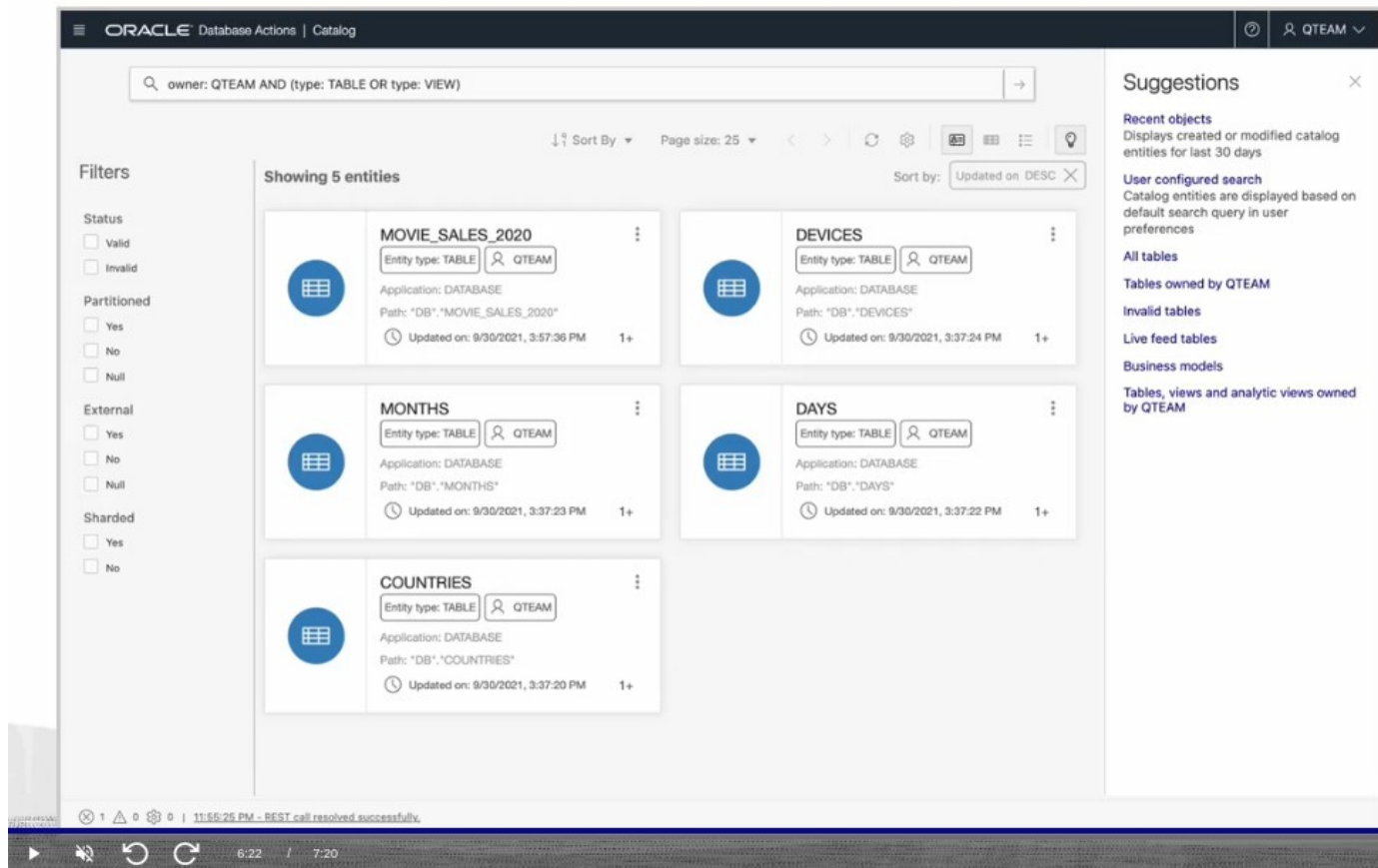
Need Help?

Documentation
SQL Developer Community Forum
SQL Developer on Twitter

Profile data after loading.

- Click the **Explore** card.
- Select the table.
- Press **Statistics**.

Data Load



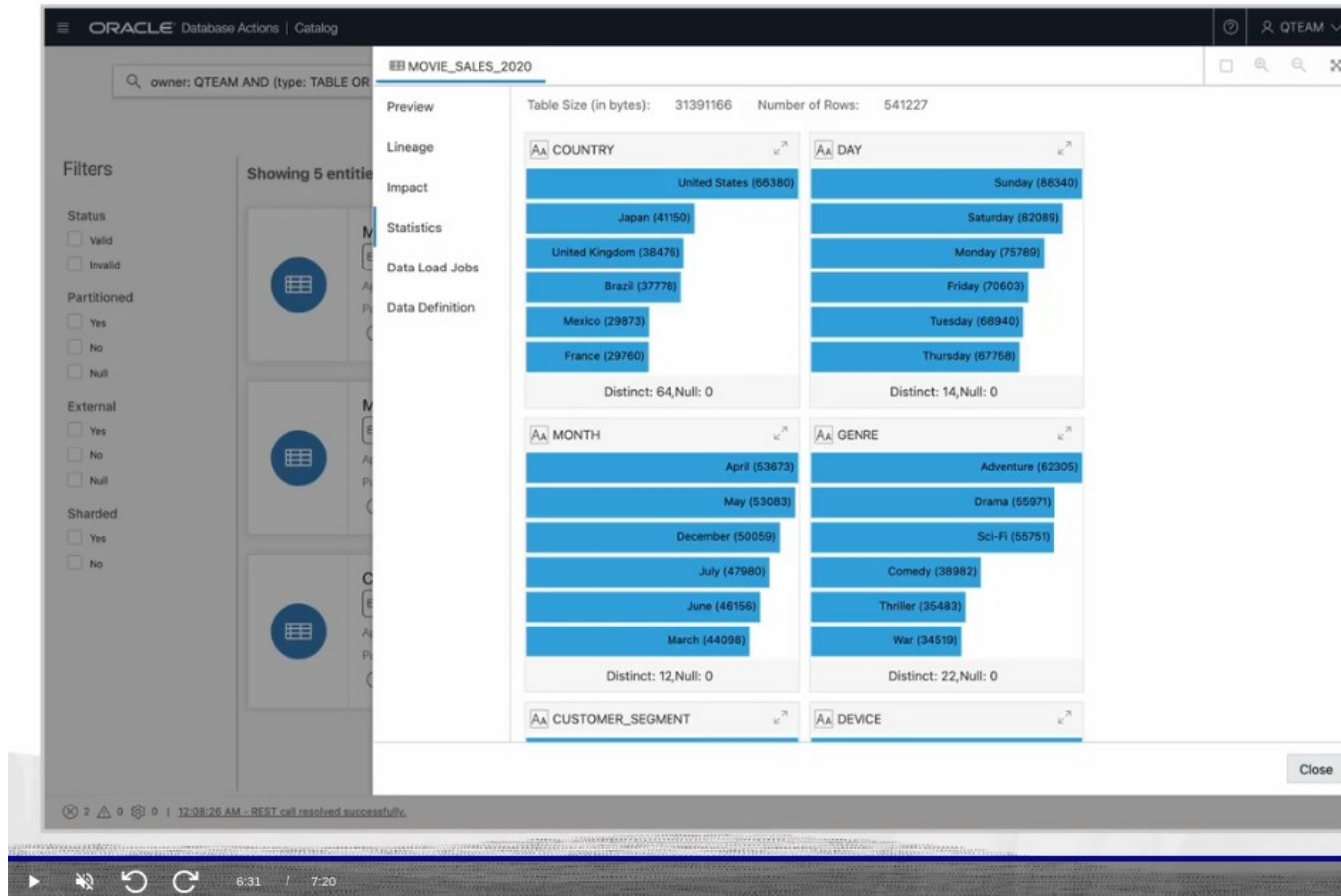
The screenshot displays the Oracle Database Actions Catalog interface. The top navigation bar shows "ORACLE Database Actions | Catalog" and a user profile for "QTEAM". A search bar contains the query "owner: QTEAM AND (type: TABLE OR type: VIEW)". Below the search bar, there are controls for sorting (Sort By), page size (25), and a refresh button. The main area shows "Showing 5 entities" in a grid layout. Each entity card displays a table icon, the entity name, its type (TABLE), owner (QTEAM), application (DATABASE), path, and the last update time. The entities listed are MOVIE_SALES_2020, DEVICES, MONTHS, DAYS, and COUNTRIES. On the left, there are filter sections for Status (Valid, Invalid), Partitioned (Yes, No, Null), External (Yes, No), and Sharded (Yes, No). On the right, a "Suggestions" panel lists various categories like Recent objects, User configured search, All tables, Invalid tables, Live feed tables, and Business models.

Profile data after loading.

- Click the **Explore** card.
- Select the table.
- Press **Statistics**.

Data Load

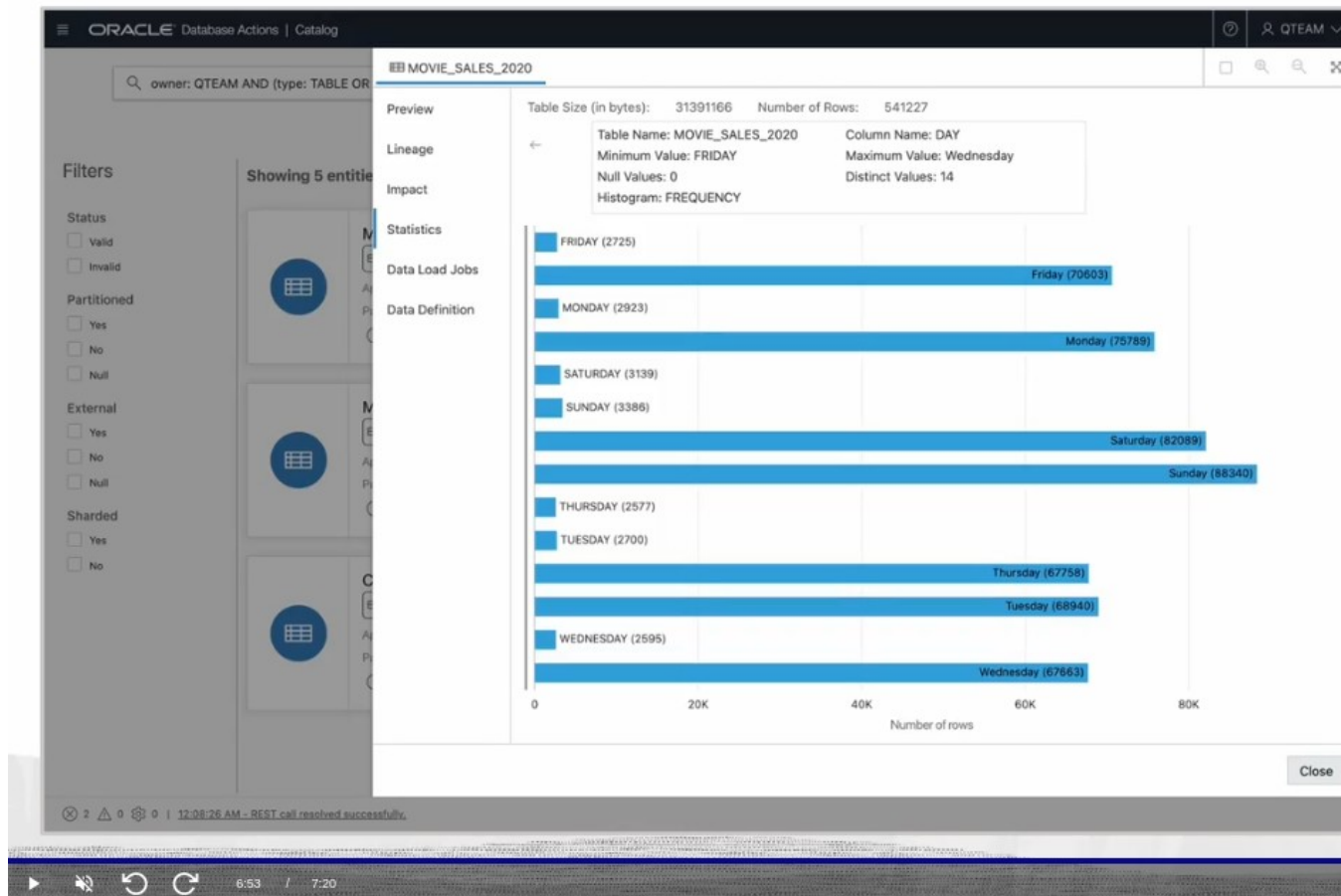
Identify data quality problems.



Data Load

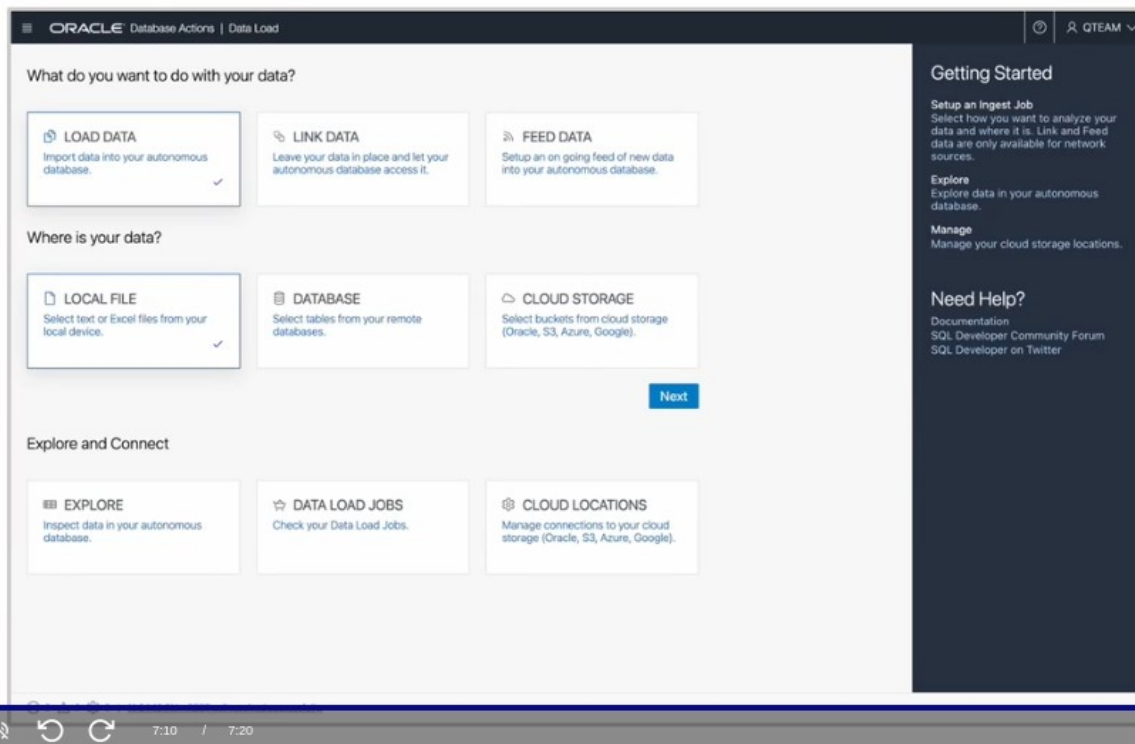
Identify data quality problems.

- 12 months
(we only want 3)
- 14 days in a week!
- Drill in to investigate:
 - Inconsistent letter case



Data Load

Summary of demonstration



Simple “drag-and-drop” data loading

- Files on local computer
 - Multiple locations
 - Different file types

- Files in Cloud Storage

Inspect loaded data

- Identify quality problems.

