



# **ThoughtSpot Release Notes**

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### 7.0 Release Notes

ThoughtSpot version 7.0 is now available. These release notes include information about new and enhanced features.

For a complete list of issues that we fixed in this release, see Fixed issues [See page 6].

- 7.0 New Features [See page 2]
- Supported Upgrade Paths [See page 5]

### 7.0 New Features and Functionality

For a complete list of issues that we fixed in this release, see Fixed issues [See page 6].

Here are the most significant new features and improvements in the 7.0.0 Software Release:

- · For the Analyst [See page 2]
- For the Business User [See page 3]
- For the Data Engineer [See page 3]
- For the IT Ops Engineer [See page 4]

#### For the Analyst

#### Search Assist Coach

Search Assist Coach [See page 0] enables Analysts, or anyone who has **edit** access to a Worksheet, to create Search Assist [See page 0] sample queries based on their company data. This gives all users the opportunity to experience onboarding and training on data that is relevant to their work, and specific to their line of business.

#### Scriptability enhancements

There are several enhancements to the Scriptability [See page 0] feature:

- Export custom SpotApps: You can now export your own custom SpotApps, or
  collections of Scriptable ThoughtSpot Answers, Pinboards, SpotIQ results, Views, tables,
  and Worksheets, packaged together as a zip file. Simply navigate to Data > SpotApps
  and choose the objects you would like to include in a custom SpotApp. Refer to
  SpotApps [See page 0].
- Add tables and columns to an Embrace connection: ThoughtSpot now allows you to
  use TML to edit tables created through Embrace [See page 0], and add columns and
  tables that already exist in the external database to the connection. Refer to ThoughtSpot
  Modeling Language [See page 0] and specify the connection information when adding
  tables or table columns to an Embrace connection.
- GUID handling: ThoughtSpot now recognizes pre-existing GUIDs upon import and asks if
  you would like to update the existing object or create a new one. Refer to Scriptability
  [See page 0].

- Improvements to generic join functionality Beta: The expanded functionality for generic joins in TML files allows the following elements:
  - · Constants: int, double, bool, date, and string
  - Comparison operators: = , != , < , > , <= , and >=
  - Columns
  - Boolean operators: AND, OR, and NOT

This feature is in **Beta**; to enable it, contact ThoughtSpot Support [See page 0].

- Joins at the table level: You can now create and edit joins at the table level using TML, including range and generic joins. You must edit these joins from the source table, not the destination table. Refer to ThoughtSpot Modeling Language [See page 0].
- Support for selective and linked filters: You can now import, export, and update Pinboards with linked [See page 0] or selective [See page 0] filters.

#### Join creation interface

We improved the join workflows to support adding and updating joins on tables, worksheets, and views. See Join a table, View, or Worksheet to another data source [See page 0].

#### For the Business User

#### **Search Assist**

Search Assist [See page 0] introduces new users to ThoughtSpot's Search experience by walking them through simple search scenarios on sample data. It demonstrates how anyone can get answers to their data questions by typing in the Search bar. Additionally, you can use Search Assist Coach [See page 0] to create sample search queries on your own data.

#### Geomap support

We added support for states and state abbreviations, and also postal codes, for Mexico. See Geo Map Reference [See page 0].

#### For the Data Engineer

#### Embrace

Embrace passthrough functions are available for Snowflake. Passthrough functions allow you to send custom SQL expressions directly to your Snowflake database without being interpreted by ThoughtSpot. For more information, see Passthrough functions for Snowflake. [See page 0]

Embrace now supports security passthrough for Google BigQuery using OAuth for authentication and authorization Beta. Because this feature is in beta, it is disabled by default. To enable this feature, contact ThoughtSpot Support [See page 0]

Embrace supports Oracle Autonomous Database Beta. This feature is still in beta and disabled by default. To enable this feature, contact ThoughtSpot Support [See page 0].

#### DataFlow

We added support for connecting to the following databases: Exadata [See page 0], Greenplum [See page 0], and MemSQL [See page 0].

We also added support for the Splunk [See page 0] file system.

When connecting to remote files, DataFlow now supports the ORC and JSON file formats.

DataFlow includes support for utilities to configure SSL, so you can securely connect securely to the following source systems: SQLServer [See page 0], Databricks Data Lake [See page 0], PostgreSQL [See page 0], IBM Db2 [See page 0], Greenplum [See page 0], Oracle [See page 0], and Teradata [See page 0].

Connections for remote files support several new file formats [See page 0]; in addition to *Delimited*, we have support for *Parquet*, *JSON* New , *LDJSON* New , and *ORC* New .

The DataFlow Home dashboard now shows both the historical and upcoming syncing information. It also supports search by table name. See DataFlow home [See page 0].

All DataFlow database connections (as listed in DataFlow Databases [See page 0]), support retrieving data through a custom SQL expression.

New DataFlow Tips [See page 0] section explains how to:

- Truncate a table [See page 0] during syncs, instead of deleting.
- Use Epoch date and timestamp options [See page 0] in pre- and post-sync TQL scripts ( \$\$CurrentDateEpochAdd and \$\$CurrentTimestampEpochAdd parameters).
- Track the last sync start time [See page 0] using the \$\$LastSyncStartTime parameter in custom formulas.

The Administration interface lets you configure the staging directory [See page 0] and allowed paths [See page 0] for data files. See Configure DataFlow server [See page 0].

#### For the IT Ops Engineer

#### **RHEL** ease of installation

This release of ThoughtSpot makes it easier to deploy ThoughtSpot on an RHEL image [See page 0]. You can now enable SELinux when deploying ThoughtSpot on RHEL. If you enable SELinux, ensure that you install the yum [See page 0] setroubleshoot package.

#### Oracle Enterprise Linux (OEL) support

This release of ThoughtSpot introduces deployment support for Oracle Enterprise Linux. This decouples the OS and application files we shipped together in previous releases, and gives you the flexibility to run ThoughtSpot on an OEL image that your organization manages internally. ThoughtSpot certifies OEL version 7.9 on AWS, GCP, and VMware. To deploy ThoughtSpot on OEL, you must have the Ansible tarball; you can obtain the tarball through your ThoughtSpot contact. For more information, see the RHEL and OEL deployment guide [See page 0].

#### New cloud VM instance types

This release of ThoughtSpot introduces support for new cloud VM instance types for AWS and Azure.

The new AWS instance types are:

- r5a.4xlarge
- r5a.8xlarge
- r5a.12xlarge
- r5a.16xlarge
- · r5a.24xlarge

The new Azure instance type is:

• D64s\_v4

To view all supported instance types for AWS and Azure, see the AWS [See page 0] and Azure [See page 0] configuration options.

#### **Azure Disk Encryption**

ThoughtSpot now supports Azure Disk Encryption (ADE) (https://docs.microsoft.com/en-us/azure/virtual-machines/linux/disk-encryption-overview) for clusters running on an RHEL image in Azure. Azure Disk Encryption provides volume encryption for both the OS and data disks of Azure virtual machines (VMs). To configure Azure Disk Encryption for your cluster(s), contact ThoughtSpot Support [See page 0].

### Supported Upgrade Paths

If you are running one of the following versions, you can upgrade to the 7.0 release directly:

- · 6.2.x to 7.0
- 6.3.x to 7.0

This includes any hotfixes or customer patches on these branches.

If you are running a different version, you must do a multiple pass upgrade. First, upgrade to version 6.2.x, or 6.3.x and then to the 7.0 release.

• Note: To successfully upgrade your ThoughtSpot cluster, all user profiles must include a valid email address. Without valid email addresses, the upgrade is blocked.

## **Fixed issues**

These are the issues we fixed in recent ThoughtSpot releases.

- 7.0 Release
  - 7.0 Fixed issues [See page 0]
- 6.3.X Releases
  - 6.3.1 Fixed issues [See page 0]
  - 6.3 Fixed issues [See page 0]
- 6.2.X Releases
  - 6.2.1 Fixed issues [See page 0]
  - 6.2 Fixed issues [See page 0]
- 6.1.X Releases
  - 6.1.1 Fixed issues [See page 0]
  - 6.1 Fixed issues [See page 0]
- · 6.0.X Releases
  - 6.0.5 Fixed issues [See page 0]
  - 6.0.4 Fixed issues [See page 0]
  - 6.0.3 Fixed issue [See page 0]
  - 6.0.2 Fixed issues [See page 0]
  - 6.0.1 Fixed issues [See page 0]
  - 6.0 Fixed issues [See page 0]
- 5.3.X Releases
  - 5.3.2 CU3 Fixed issues [See page 0]
  - 5.3.2 CU2 Fixed issues [See page 0]
  - 5.3.2 CU1 Fixed issues [See page 0]
  - 5.3.2 Fixed issues [See page 0]
  - 5.3.1 Fixed issues [See page 0]
  - 5.3 Fixed issues [See page 0]
- 5.2.X Releases
  - 5.2.3 Fixed issues [See page 0]

- 5.2.2 Fixed issues [See page 0]
- 5.2.1 Fixed issues [See page 0]
- 5.2 Fixed issues [See page 0]

#### 5.1.X Releases

- 5.1.4 Fixed issues [See page 0]
- 5.1.3 Fixed issues [See page 0]
- 5.1.2 Fixed issues [See page 0]
- 5.1.1 Fixed issues [See page 0]
- 5.1 Fixed issue [See page 0]

#### · 5.0.X Releases

- 5.0.4 Fixed issue [See page 0]
- 5.0 Fixed issues [See page 0]

#### · 4.X Releases

- 4.5.1 Fixed issues [See page 0]
- 4.5 Fixed issues [See page 0]
- 4.4 Fixed issues [See page 0]

#### 7.0 Fixed issues

These are the issues we fixed in ThoughtSpot Release 7.0.

- Users with the Cannot create or update Pinboards permission can create pinboards and pin
  answers to pinboards, but this permission shouldn't allow them to.
- Scheduled pinboards with row-level security enabled, send incorrect PDF attachments to some users.
- Users who have completed the onboarding process, see the onboarding page every time they sign in to ThoughtSpot.
- Queries show a measure as being grouped by, rather than summed, which causes incorrect results.
- · Embrace generates incorrect joins in RedShift SQL.
- · Editing any filter generates an error.
- · German letters ä, ö, and ü are not supported in usernames.
- A missing sysctl parameter causes pinboard exports to not work.

- · Saving an edited formula in worksheet does not work.
- · Date sorting doesn't work after pinboard filters are added.
- A manually started SpotIQ Analysis runs for a long time, and eventually stops after about 20 minutes with no insights found.
- Cluster upgrades run for 2 hours before eventually failing, after printing out the same migration statement twice.
- DataFlow pre and post sync TQL fails with add\_days function.
- · DataFlow sync does not sync a table.
- · An error occurs during DataFlow sync after adding a table.
- Zooming in on a map visualization is not possible when using latitude and longitude.
- A formula that uses to\_string on a round fails.

### 6.3.1 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.3.1.

- Text in a table incorrectly converts to a link, causing broken links in data.
- Applying a Pinboard filter to or double-clicking the legend of a stacked column visualization causes it to fill the entire vertical length of the chart.
- Installing Python packages removes /usr/bin/pip3, causing the pip3 package installation to fail.
- · Upgrade fails when NAS mount does not have an absolute path.
- When opening a chart in Answer Explorer and adding some values, the chart converts to a table and downloads don't work.
- Attempting to enable SSSD by running: tscli enable sssd —user USER —domain DOMAIN causes an error.
- · Using a calculated field with the Rank() function causes an error.
- Uploading a data column name adds an invisible character to the column name, which causes search to not work.
- Though all the schemas and tables are visible, data retrieval with an Embrace SAP Hana connection fails.
- A specific Pinboard filter blocks an entire Pinboard from loading.
- When creating a DataFlow TeraData connection, the preview screen is very slow.
- Simba Server receives 500 errors during data loads, causing sporadic load failures.
- Editing a filter causes an error.
- · When creating an Embrace RedShift connection, incorrect joins are generated in the RedShift

SQL.

- Cluster upgrades fail due to a gap in the edit log for HDFS, causing it to get stuck in standby
- Conditional formatting prohibits the use of hex color #000000 from being used to color a table cell.

#### 6.3 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.3.

- · Pivot table aggregation type cannot be changed.
- · Exporting data to CSV does not conform to a custom date format.
- · Adding a filter to a Pinboard does not work with visualizations from different sources.
- When a user runs a search on a table, if the result set is greater than 1000 rows, the Show column summary sums up 1000 rows only, while the headline summaries show the total for all rows.
- substr function using non-English text garbles the result.
- Make a Copy option in Pinboard menu is greyed out for a user with view-only access.
- Logging in through SSO with SAML fails periodically.
- · SSO session timeouts do not work.
- · Pinboards are read-only when the owner shares them with another user with edit rights.
- · Worksheets cannot be saved if they contain a formula and a filter.
- As a result of strict CLS, users can access tables that they shouldn't be able to access when selecting a source in a worksheet.
- · Growth formula does not work when using a custom calendar.
- ThoughtSpot main navigation bar displays even when primaryNavHidden=true.
- Attribute views, analytic views, and calculation views are not accessible through Embrace SAP HANA connections.
- " [object Object] " displays in the description field after editing a view.
- · Search suggestions don't display column values.
- The select data source option is not available for Search.
- · R package not set up on cluster.
- · Style customization menu is not available.
- Replay Search feature shows as available, despite not being supported in embedded ThoughtSpot.
- · Query from user set bypass RLS shows joins to RLS tables.

- · Pivot table disappears when scheduled, but is visible when downloaded.
- · Email does not work in DataFlow, even when SMTP is configured.
- · DataFlow does conform to the cluster timezone.
- A worksheet with a formula configured as Geo does not import into a cluster.
- Using DataFlow to update a flow with a new column fails if the column includes a space.
- · A JAR file mismatch causes an error when using DataFlow for MySQL.
- · Data labels do not display on the % line in a Pareto chart.
- Adding table sync in DataFlow causes a "Failed to load column" error.
- · Table number formatting is lost when saving an Answer.
- Custom calendar date starts with February instead of January in a line chart.
- · Incorrect statistics display in the log and dashboard when using DataFlow for MySQL.
- A cluster cannot be stopped if nodes are down.
- Names cannot be updated in a pivot table.
- · Sankey chart shows incorrect values.
- Users who don't have edit permissions on a table visualization in a Pinboard do not have the option to remove a column.
- · Sankey charts do not load.
- · Preview of tables in DataFlow for Teradata does not work.
- · SpotIQ doesn't display "analyses" after an analysis is run.
- A scheduled Pinboard does not send email when there is a Japanese character in the Pinboard.
- Users cannot drill down on pivot tables to look at the underlying table.
- · Complex Pinboards cannot be copied for editing.
- · Showing underlying data on a chasm trap search gives repeated or incorrect values.
- · Scheduled materialized views don't update.
- Date formats of downloaded csv, pdf, and xlsx files do not conform to the locale.
- Users can't sign in after tscli storage gc command completes.
- · Scriptability does not export worksheets that have a filter.
- Pivot table heatmap function uses the decimal value of the percentage calculation instead of the actual percentage.
- · Summing on group aggregate formula in a worksheet fails.
- · Data tab missing information after making a copy of "TS Stats: Table Status" Pinboard.
- to\_string does not work on custom calendar attributes.
- "million" and "billion" are not translated to Japanese in an Answer.
- · Changes to column names in the data format of a Pinboard do not persist.
- · Using a global filter on one value in a Pinboard filters on all values.

- Converting a '/' (front slash) to 'safe\_divide' in a complex formula causes an error.
- · Geo Map downloads two different charts for the same query.
- · User is unable to list and delete worksheet dependencies.
- Attempting to share a worksheet with another user causes a "Loading Failed" error when trying to add the user.

#### 6.2.1 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.2.1.

- Replay Search incorrectly shows as available when ThoughtSpot deployed in Embedded mode.
- · Style customization page is not available.
- Clicking the Follow button enables the navigation bar when ThoughtSpot is deployed in Embedded mode.
- · Scrolling a tabular Answer causes an error.
- · Growth formula doesn't work when using a custom calendar.
- · Geo Map intermittently displays two different charts for the same query.
- · Copy to clipboard doesn't work in the Administration console.
- · Choosing a fact table when creating a join causes inconsistent sub-queries.

#### 6.2 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.2.

- · Row-level security does not reflect search tokens and Explore suggestions.
- Old version of the ThoughtSpot Web UI appears for some users, after cluster upgrade.
- Global filter on Pinboard in the ThoughtSpot Web UI doesn't work.
- Users can still access Data > Tables page, even though the Data tab is hidden from ThoughtSpot Web UI.
- The time required to execute the TQL delete command increases exponentially, until it no longer works.
- PDF export from a Pinboard in the ThoughtSpot Web UI doesn't work.
- The sender's email in notifications uses the default no-reply@customer.thoughtspot.com instead of the from-email configured through tscli smtp, or the email of the user who

- shares the Pinboard.
- · Regional German names for states in Geo Maps are not allowed.
- In Version 80 of Google Chrome browser, ThoughtSpot Web UI displays the date shifted by one day.
- ThoughtSpot Web app did not work with Version 80 of Google Chrome browser; cookies for pages in a ThoughtSpot cluster do not have the new SameSite attribute.
- · ThoughtSpot Web App did not work on newer versions of Microsoft Edge browser, after 5.3.
- Pinboards with 25 or more visualizations do not work properly.

#### 6.1.1 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.1.1.

- · Queries time out when loading a fact table with as many as 4 billion rows.
- · SpotIQ gets stuck in a loop and is unresponsive.
- When multiple filters are used in a worksheet, the searches fail for only specific columns in a table.
- Microsoft Internet Explorer 11 doesn't work with ThoughtSpot embedded in an iframe, displaying an 'access denied' JavaScript error message.
- The time required to use TQL to delete data from fact tables increases until the delete is not successful.
- · After upgrade to 6.1, ad sync scripts fail to run.
- · Inconsistent naming of disks causes mounting to fail.
- The Admin Console fails to load in a cluster, where it loaded before.
- An older version of the ThoughtSpot user interface appears, even though cluster is running newer version.
- Upgrading a cluster from 5.x release to 6.x release is unsuccessful.
- Sender's email displayed in notifications does not use the from-email configured in tscli smtp.
- · A large number of scheduled Pinboards slows down the Falcon database.
- · After upgrade to 5.3.2.CU1, all Pinboards using a specific variable (adp) do not work.
- · An administrator is unable to save a worksheet on the first try.

### 6.1 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.1.

- When using the tscli fileserver upload command to upload a file that is larger than the maximum supported file size, an error message with an incorrect maximum file size appears.
- The tscli event list displays messages for creation, modification, and deletion that are not user friendly.
- · Sorting or filtering a column in a chart does not work.
- The column order in the PDF of a visualization is different than the order in shown in ThoughtSpot.
- Removing a key from a table is not possible because multiple joins for an old column cannot be detected.
- · Intermittent slow search response time.
- · Entering a search generates results from columns outside the selected data source.
- An incorrect result is displayed when a filter is created on the Group\_Max aggregation function.
- · Backup policy names are not validated to ensure they won't cause backups to fail.
- The headline table aggregate summary is not available when group aggregate functions are used
- · Removing a column from a search increases the number of rows shown.
- Multiple variables cannot be added to a single map visualization.
- · Drilling down on a visualization causes the date format to change.
- · Double-clicking on the legend of a stacked column chart does not show hidden values.
- · Data load fails due to a primary key having multiple rows.
- · Filtering on a Pinboard card causes a NullPointerException error.
- A formula with Group\_Max function doesn't work with Growth key word.
- · The confirmation message for deleting a restored cluster indicates the wrong cluster name.
- Modifying a date filter of a Pinboard from a set date range to none, causes the filter to disappear.
- · R visualization downloads fail when exporting to PDF.
- · A Pinboard with filters cannot be saved.
- Using a weekly date aggregation with a custom calendar, causes the days to be split at the
  end of the month if the month ends in the middle of the week.

- · Worksheet filters provide different answers than search filters.
- · Drilling down on a date in a custom calendar displays an incorrect epoch.
- Menu items, including Share, Copy a Link, and Send Feedback, cannot be disabled when ThoughtSpot is embedded.
- · ThoughtSpot instances hosted in GCP have a 127.0.0.1 address for eth0.
- · Keywords do not provide correct results when using a custom calendar.
- · A worksheet cannot be saved after changing a join type.
- Top and Bottom keywords do not work on a measure with the unique\_count\_if formula applied.
- · Non-admin users are unable to search for a newly added column in the worksheet.
- · Colors of slices in pie chart change when you filter on the pie chart.
- Total labels in a Stacked Bar chart do not account for negative amounts.
- · When adding a connection in Embrace, not all tables in the external database are displayed.
- ThoughtSpot TQL does not list tables that don't exist in the default Falcon schema.
- · The date format in a PDF is not correct for the user's locale.
- · Various display issues with Admin Console
- · Periodic backups fail after upgrade.
- · Geo maps allow regional German names for states.
- In ThoughtSpot clusters hosted in Azure, Log rotate does not rotate large\_files.

#### 6.0.5 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.0.5.

- When Copy link has been disabled, it still appears in the More menu of Pinboards.
- · The management console is not accessible.
- A Pinboard with an advanced formula can be viewed by an administrator, but not by a regular user they share it wit
- A cluster that is using a customer logo, still shows the ThoughtSpot logo on downloaded PDFs.
- · Filter values overlap and are unreadable in the filter picker.
- · Attempting to sign in using SSO causes a 500 Internal Server Error.
- · Clusters with many scheduled Pinboards cause the Falcon database to be slower than normal
- · Dates in PDFs are only displayed in the United States date format.
- The Google Chrome 80 browser is not supported, because cookies for pages in a

ThoughtSpot cluster do not have the SameSite attribute, which is required for that browser.

- The group aggregate function does not work after upgrade to release 5.3.1.
- · A user who edits a worksheet is not able to save their changes.

#### 6.0.4 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.0.4.

- · Under certain conditions, worksheet filters provide different answers than search filters.
- · Total amounts in a stacked bar chart do not account for negative amounts.
- · Management console displays incorrect information about SSL status.
- · Management console displays incorrect information about SMTP status
- Upgrading from release 5.2.3 to 6.0.3 causes HDFS to go into safe mode and cause missing data volumes.

### 6.0.3 Fixed issue

This is the issue we fixed in ThoughtSpot Release 6.0.3.

 Dates shown in the ThoughtSpot UI may be offset by one day in version 80 or later of the Google Chrome browser. Actual search results are not affected by this issue.

### 6.0.2 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.0.2.

- Updating a formula causes a blank screen and corrupts a worksheet when it is saved.
- Upgrade to release 6.0.1 changes charts with a y-axis at 100% to a regular stacked column chart.
- After upgrade to release 5.3.2, users cannot sign in using SSO.
- · Disk alerts occur when drives are functioning normally.

### 6.0.1 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.0.1.

- · Search autocomplete occasionally displays an error when using a bulk filter.
- In a custom calendar, sales results for individual years are correct, but are not correct when comparing those same years using versus (example: 2019 vs 2018 net sales).
- Upgrades to a ThoughtSpot AWS deployment can cause hosts to lose their configured hostnames.
- · A yellow bar sometimes appears during search, causing search not to work.
- Optimization does not occur in pinned measure formulas with complex aggregation, resulting in more queries than necessary.
- · After upgrade to release 5.3.x., previously enabled delayed search for a cluster is disabled.
- The dot in a hover tooltip for a chart, indicating which item the tooltip applies to, does not appear.
- Common keywords, like this year, date daily, last quarter, and week of year do not reflect the settings of a custom calendar.
- · The title page of an exported PDF does not display the full date
- The date filter of an answer does not work properly when pinned to a Pinboard, even after applying the Pinboard date filter
- Scroll and edit options are missing for charts in presentation mode when using the Microsoft Internet Explorer browser.

#### 6.0 Fixed issues

These are the issues we fixed in ThoughtSpot Release 6.0.

- The tscli cluster download-release command sometimes did not work correctly.
- The date dimension attribute was removed from the query for all date aggregations, except for DETAILED.

### 5.3.2 CU3 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.3.2 CU3.

- · Exported PDF, CSV, and XLSX files display caption tags
- · Administrators are not able to edit a worksheet.
- · A legend in a chart is not displayed correctly when the monthly attribute is used in a search.
- After upgrade to 5.3.2 CU2, users cannot access a ThoughtSpot instance previously accessed through SSO.
- Users cannot sign in to a ThoughtSpot instance through SSO.
- Changes made to a schema through TQL are not reflected when viewed in the ThoughtSpot UI.

#### 5.3.2 CU2 Fixed issue

This is the issue we fixed in ThoughtSpot Release 5.3.2 CU2.

· Visualizations that worked in the past, display an error message.

#### 5.3.2 CU1 Fixed issue

This is the issue we fixed in ThoughtSpot Release 5.3.2 CU1.

· Rows that don't exist in TQL appear when filtering in the ThoughtSpot UI.

### 5.3.2 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.3.2.

- Delayed search enabled in a previous release version does not work after upgrade to 5.3.1.
- · Pop-up messages sometimes cover the entire width of the screen.
- Share, Copy a link, and Send feedback cannot be disabled when ThoughtSpot is embedded.
- An error in the date range occurs when drilling down in a custom calendar.

- · When the network check fails during a self-service upgrade, it retries indefinitely.
- If formulas have a less-than sign (<) followed by text, the text following the less-than sign
  does not display in a table.</li>
- · Removing a column from a search query increases the number of rows displayed.
- A search that uses the group\_max function displays an incorrect result when filtering is applied.

### 5.3.1 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.3.1.

- Using a custom calendar, and doing a query that filters on a date field causes a database
- Signing in to ThoughtSpot multiple times in quick succession causes a 500 error.
- When row-level security is used, a 2-column join in a fan-trap query does not work if the column contains NULL data/values.
- · Opening certain Pinboards can cause the Google Chrome browser to freeze
- · Columns renamed in a worksheet revert back to their original names later.
- · Columns cannot be deleted from a worksheet.
- · Using a custom calendar and filtering date values by year, month or quarter does not work.
- · Canadian postal codes do not appear on maps.
- The Admin > Style Customization page indicates the wrong pixel dimensions required for a wide application logo.
- · Certain HTTP security headers are not implemented.

### 5.3 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.3.

- A problem where dates do not display properly in the query details pane of an answer is now fixed.
- An issue where the color coding of columns is not displayed in a PDF downloaded from a worksheet is fixed.
- A problem where using Copy and edit in a saved answer causes the screen to go blank has been fixed.

- · An issue where axis labels are missing from some visualizations is now fixed.
- A problem where URLs that appear within an Answer are red, instead of blue, is now fixed.
- · An issue where an answer that has no measures causes it to display blank is now fixed.
- A problem where weekly and monthly charts are not showing weekly and monthly aggregation correctly is now fixed.
- A problem where the column tooltip in a Pinboard does not show last updated information has been fixed.
- · An issue where the filter dialog box is unresponsive when opened from Pinboard is now fixed.
- A problem when pinning an answer to a Pinboard where the Pinboard list is very slow to display is now fixed.
- An issue where scheduled Pinboard emails fail to send to a specific recipient with a valid email address is now fixed.
- · A problem where a stacked bar chart does not work in a Pinboard is now fixed.
- · An issue where an exclude filter does not work properly on a Pinboard is now fixed.
- A problem where a user cannot edit a Pinboard, even though they have the proper permissions to do so is fixed.
- An issue where emails fail to send from scheduled Pinboards that contain Japanese characters in their title is now fixed.
- A problem where nulls are excluded from a query, even when they have not been excluded using a filter is now fixed.
- An issue where searches on a Pinboard don't include cached queries has been fixed.
- An issue where running the tscli cluster command causes a failed security check is now fixed
- A problem where the Informatica ODBC cannot connect to ThoughtSpot is now fixed
- A problem where a saved answer cannot be opened when it uses an aggregate function is now fixed.

#### 5.2.3 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.2.3.

- An issue where LDAP sync does not sync users after upgrade to release 5.2.2 is now fixed.
- A problem where certain types of joins do not work when row-level security is used is now
- An issue where opening certain Pinboards can cause the Google Chrome browser to freeze is now fixed.

- A problem in custom calendar where filtering the date values by year, month or quarter does not work is now fixed.
- · An issue where syncing users using the public API does not work is now fixed.
- A problem where Canadian postal codes do not appear on maps is now fixed.

#### 5.2.2 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.2.2.

- · An issue where PDFs downloaded from a Pinboard are poorly formatted is now fixed.
- · An occasional problem where the login process is slow has been fixed.
- An issue where the filter dialog box freezes when opened from a Pinboard, or the filter icon in the left panel is now fixed.
- Previously, when the unique\_count\_if aggregate function was used in both the numerator
  and denominator of a division formula in a search query, it caused only the numerator value to
  be returned. This problem is now fixed.
- A problem where the unique\_count\_if aggregate function does not parse an expression is now fixed.

#### 5.2.1 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.2.1.

- An issue where column tooltips do not display last-updated information is now fixed.
- An error that occurs when attempting to save changes to the title of a visualization is now fixed.
- · An issue with the user-onboarding walkthrough intermittently failing to load is now fixed.
- Reliability of the filter dialog when opened from a Pinboard or the left panel has been improved.
- · An issue with a NAS mount disconnecting during restore of a cluster is now fixed.
- A problem where tables in a Google Chrome tab become misaligned is now fixed.
- · Corrupted metadata after an upgrade which made some worksheets uneditable is now fixed.
- An issue where greyed-out search phrases could not be edited while in delayed search mode is now fixed.
- The database manager memory limit has been increased to 16 GB to improve performance.

- An issue where tables created with incorrect DDL syntax could be imported without errors is now fixed.
- · A problem with date filters in the Japanese locale is now fixed.
- · An issue with refreshing materialization of views is now fixed.
- · Occasional slow navigation between the Answer and Pinboard pages has been fixed.
- A problem where scheduled Pinboard emails failed to send to a specific recipient with a valid email address message is now fixed.
- Embedded Pinboards no longer occasionally display a Pin button.

### 5.2 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.2.

- · Table user experience improvements:
  - · The column header is now left-aligned.
  - · Column widths can be made very narrow.
- · Chart user experience improvements:
  - When sorting by date on the x-axis, the date format no longer changes and the axis no longer disappears.
  - · You can now sort using a sort field that is not in your chart.

### 5.1.4 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.1.4.

- An error that occurred when saving changes to the title of a visualization is now fixed.
- An issue where some worksheets became uneditable after an upgrade, due to corrupted metadata, is now fixed.
- · A problem with date filters in the Japanese locale is now fixed.
- · An issue with refreshing materialization of views is now fixed.

### 5.1.3 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.1.3.

- Downloading an R visualization no longer causes an empty page to be displayed.
- · A problem where tables in a Google Chrome tab become misaligned is now fixed.
- · Custom scatter charts no longer disappear from Pinboards after an upgrade.
- An issue where the Copy-and-edit button incorrectly appears on embedded visuals is now fixed
- Occasional slow navigation between the Answer and Pinboard pages has been fixed.
- A normal bar chart in a Pinboard which is changed to a stacked bar chart no longer reverts to the normal bar chart after the Pinboard is saved, browser is closed, and Pinboard is reopened.
- A problem where using the exclude filter on Pinboards causes the wrong results to be displayed is now fixed.
- · Usage-based indexing of search has been improved.
- A problem where the tscli ssl rm-cert command was used to remove a cert, but did not revert it back to the default cert is now fixed.
- When a search that uses no attributes results in fan-trap queries, the measure values shown are no longer incorrect.
- · A problem where some users could not log in through SSO after an upgrade has been fixed.
- · Fan-trap queries no longer have more grouping columns than necessary
- · An issue with worksheets showing incomplete compound-column joins has been fixed.
- · A problem where the user interface becomes slow during a data load has been fixed
- · CSVs downloaded by certain row-level-security users are no longer empty.

#### 5.1.2 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.1.2.

- Search no longer stops working under certain conditions like fast typing, or copying and pasting of a search query.
- Selecting 'Copy and Edit' in an answer, Pinboard visualization, insight, SpotIQ Pinboard or view, no longer causes the user to be signed out.

- HDFS images for a cluster are now created prior to pushing the HDFS configuration. This
  ensures images are fresh during an upgrade.
- When removing a node, the node calling command no longer results in unreachability due to misconfigured firewall settings.
- Permissions issues with tsload and tql are now fixed, so the thoughtspot user can load data.
- · Database stability has been improved.

#### 5.1.1 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.1.1.

- Geo Bubble map labels can now be disabled or enabled through a data labels checkbox.
- · Filter panel failure to open during formula creation has been fixed.
- · Custom R analysis failure when run from Custom Analyze has been fixed.
- Microsoft Internet Explorer button display problem in Edit Group, Add a New Group, and Custom Analysis has been fixed.
- Tooltips in line, scatter, and radar charts have been improved to avoid tooltip display when far from a data point
- · Microsoft Internet Explorer problem with saving the name of an answer has been fixed
- Previously, admin style and font customizations for tables and charts were off by default.
   They are now on by default.
- Search phrase autocomplete has been fixed to prevent unnecessary red highlighting of values.
- Geo Bubble and Geo Heatmap issue where chart displays momentarily and then disappears
  has been fixed.
- · Zoom on Geo maps can now be done using a mouse scroll wheel.

#### 5.1 Fixed issue

We fixed the following issue in ThoughtSpot Release 5.1.

The X and Y axes were previously flipped on bar charts and stacked bar charts [See page 0].
 This has been fixed.

### 5.0.4 Fixed issue

We fixed the following issue in ThoughtSpot Release 5.0.4.

· Deprecated SSH cryptographic settings are used.

#### 5.0 Fixed issues

These are the issues we fixed in ThoughtSpot Release 5.0.

- Changes to metadata result in rebuilding the search index, even though the data has not changed.
- A search returns an unexpected answer, because the last aggregation performed during execution was doing a MIN() rather than a SUM().
- · Timeouts cause a cluster crash in some cases when a right outer join was used.
- · The space allocation chart does not update.

#### 4.5.1 Fixed issues

These are the issues we fixed in ThoughtSpot Release 4.5.1.

- Filters now work on formula-derived columns where the formula returns a numeric value of a
  type other than the integer types. In the past, filtering on a DOUBLE type formula-derived
  column required that the formula convert any DOUBLE values to an integer (INT32 or INT64).
  Now this type conversion is not necessary.
- A problem was resolved where changes to metadata resulted in rebuilding the search index,
   even though the data had not changed
- A problem was resolved where a search was returning an unexpected answer, because the last aggregation performed during execution was doing a MIN() rather than a SUM().
- A problem was resolved where timeouts were causing a cluster crash in some cases when a right outer join was used.
- A problem was resolved where user names were accidentally being sent along with cluster metrics.

- A problem was resolved where the space allocation chart was not getting updated.
- · A problem was resolved where indexes failed to build for empty tables.
- An issues with upgrade was resolved which caused the appliance to boot from an incorrect partition causing users to be found missing.
- A problem was resolved where you could not add a column to the search in cases where
  there was a long list of columns on the Search page. Clicking on a column name caused the
  column names to shift, such that you could no longer double click on the column name to add
  it to the search.
- A problem was resolved where SpotIQ sometimes did not return a result unless a process was restarted.
- A problem was resolved where where deadlock issues with the Search service caused indexing to fail.
- A problem was resolved where if the word "top" occurred as a data value, you could not use "top" as a keyword.
- · A problem was resolved where periodic backups was delayed.
- A problem was resolved where adding columns to a worksheet and saving it resulted in timeouts and an HTTP\_UNAUTHORIZED(401) status.
- · A problem was resolved where idle sessions were never timing out.
- An underlying system issue was resolved that caused a saved answer to fail with a read bar error if the answer was created on a relationship(s) which was based on a hidden column(s).
- A problem was resolved where sorting on a primary key column produced duplicates for some values, both when viewing results in the ThoughtSpot application and when using TQL.
- A problem was resolved where after upgrading, some Pinboards could not be opened and instead returned a red bar error.
- A problem was resolved where the number format wasn't being honored when the column contained a currency. Setting the format for three digits after the decimal resulted in displaying only two.
- An issue was resolved where hidden fields in source data prevented users from creating answers related to other columns in that data.
- · A problem was resolved where drill down on multiple buckets did not apply all date filters.
- An issue was resolved that potentially made ThoughtSpot at risk for Jackson JSON Library Vulnerabilities.
- A problem was resolved where a node failed due to a bad DIMM (Dual In-Line Memory Module), but didn't failover successfully
- · A problem was resolved where data loaded very slowly.
- · An issue was resolved where the ThoughtSpot application was potentially vulnerable to

Cross-Site Request Forgery (CSRF). The potential was removed from the application interactions. Any ThoughtSpot API customers will have to be updated to be compliant with this new feature. The primary things that could be affected are:

- · Sync scripts that manage users and groups creation.
- · Scripts that use the public APIs to fetch data.
- The easiest way to diagnose this would be to check for the inability of the script to log in to
  the system. Please contact ThoughtSpot Support to get guidance on the steps to resolve the
  issue.

#### 4.5 Fixed issues

These are the issues we fixed in ThoughtSpot Release 4.5.

- A problem was resolved where insufficient memory caused services on a cluster to crash repeatedly.
- · A problem was resolved where idle sessions were never timing out.
- · A problem was resolved where indexes failed to build for empty tables.
- · A problem was resolved where users were unable to scroll in IE with pivot tables.
- An issues with upgrade was resolved which caused the appliance to boot from an incorrect partition causing users to be found missing.
- A problem was resolved where where deadlock issues with the Search service caused indexing to fail.
- · A problem was resolved where periodic backups was delayed.
- Adding columns to a worksheet and saving them resulted in timeouts and an HTTP\_UNAUTHORIZED(401) status. This problem resulted from an internal SESSION handling error. This problem was resolved in this release.
- A problem was resolved where tsadmin and guest were prevented from uploading a CSV upload and received a red bar error instead.
- · A problem with memory links during upgrade was resolved.
- A problem was resolved where Google Chrome version 65 broke the formatting of headlines
  in Pinboards. This issue was reported as a Product Support Advisory for versions 3.x and 4.x
  releases older than 4.4.1.4.
- An underlying system issue was resolved that caused a saved answer to fail with a red bar error if the answer was created on a relationship(s) which was based on a hidden column(s).
- A pinned answer that relied on an underlying join between two worksheets one of which

- included a filter failed to display properly. This problem was resolved in this release.
- After upgraded customer appliance from 4.4.0.11 to 4.4.1.2 GA, some Pinboards could not be opened and instead returned a red bar error. This issue was resolved.
- Some customers reported that several data buckets were relative to calendar year/quarter/ month rather than relative to the financial year.
  - QUARTER\_OF\_YEAR
  - MONTH\_OF\_YEAR
  - MONTH\_OF\_QUARTER
  - WEEK\_OF\_YEAR\_ISO
  - WEEK\_OF\_QUARTER
  - DAY\_OF\_YEAR
  - DAY\_OF\_QUARTER
- An issue was resolved where hidden fields in source data prevented users from creating answers related to other columns in that data.
- Customers were receiving a RowSecurityManager not implemented for Atlas.
   message when scheduling a Pinboard. This problem was the result of legacy features in the system. These features no longer are checked.
- · A problem was resolved where drill down on multiple buckets did not apply all date filters.
- A problem was resolved that caused segmentation faults which in turn caused crashes in a cluster during an upgrade.
- An issue was resolved that potentially made ThoughtSpot at risk for Jackson JSON Library Vulnerabilities.
- A problem was resolved with the Show underlying data function ignoring the "last period" filter. This filter is no longer ignored.
- A problem was resolved where the presence of a date bucket filter after a measure column was ignored in query execution.
- Issues were resolved that potentially exposed ThoughtSpot to two vulnerabilities: "Meltdown" and "Spectre", along with variants. These vulnerabilities only applied when the ThoughtSpot application was sharing hardware with other applications, such as cloud deployments. When deployed in a virtualized environment, either on prem or in AWS, the virtual environment needed to patch the OS for it. When deployed on its own appliance, these vulnerabilities should not have affected ThoughtSpot.
- An issue was fixed that occurred when plotting a formula that has either NaN or Infinity as
  some of the values. In this case, the pivot table treated the first instance of NaN/Infinity and
  every subsequent value as a single value and plots it in one cell. This problem was fixed.
- · A problem was resolved where near keywords returned a red bar error.

- An issue was resolved where requests to update a formula failed due to the complexity of the nesting.
- Non-admin user could still see hidden fields. In queries, these users were asked to disambiguate these even though they were hidden. This problem was resolved.
- An issue was fixed where the installation path was not properly updated resulting in an
  environment pointing to old versions of tsload and tql. Now, the standard path is
  updated during an upgrade.
- A problem was resolved where a saved answer from version 4.3 failed after upgrade because they referred to old table names.
- When query has keywords that map to date column and Period Ago date buckets then SpotIQ Insight for that query did not work even though the user-created query succeeded.
   This SpotIQ bug was resolved.
- When a query had keywords that mapped to a date column as well as to date buckets,
   SpotIQ Analysis failed for that query. For example, in query revenue in Q1 1992 the last part represents date buckets. If Q1 1992 maps to a date column then SpotIQ analysis failed.
   The query itself worked and any answer/Pinboard that based on these queries were fine. This problem was resolved
- A problem was resolved where NPS surveys were appearing when ThoughtSpot was provided through embedded content. This should no longer occur.
- A problem was occurring where upgrade to a new version caused several types of formulas that relied on aggregated data to stop working. Problems were recorded involving:
  - · Unique or count not functional when using Aggregated date.
  - Group\_count not functional as well.
  - Group\_max giving duplicated result.
- A problem was resolved where ThoughtSpot would throw an error if the query involved multiple date filters on the same date column. This has been fixed in this release.
- A problem was resolved where the tscli ssl set-min-version failed because the minimum value was incorrect internally. The internal issue was resolved.
- An issue with the callhome metrics feature caused problems during upgrade. This problem was resolved.
- A problem was resolved where deleting a relationship failed if either side of that relationship was a worksheet.
- A problem was resolved where Zookeeper reported reaching a descriptor limit. This report
  was returned in error. ThoughtSpot no longer reports this.
- · A problem was resolved where data loaded very slowly.

- A problem where Strict Transport Security was not enforced was fixed. The product now supports Strict Transport Security.
- An issue was resolved where the ThoughtSpot application was potentially vulnerable to
  Cross-Site Request Forgery (CSRF). The potential was removed from the application
  interactions. Any ThoughtSpot API clients will have to be updated to be compliant with this
  new feature. The primary clients that would be effected:
  - · Sync scripts that manage users and groups creation.
  - · Scripts that use the public APIs to fetch data.
- The easiest way to diagnose this would be the inability of the script to login to the system.
   Please contact support to get guidance on the steps to resolve the issue.
- A problem was resolved with the JESSIONID value. Previously, setting the Remember Me option on the login page, caused the server to set a new JSESSIONID on the client after the user logs out. This new JSESSIONID was used for the next authenticated user session, regardless of the user's identity. This no longer happens. Instead, users that re-login after setting Remember Me are given a new JSESSIONID.
- Dates on the Data page was corrected so that dates now sort chronologically.
- Previously, the application allowed cookies to contain information related to session state. An
  option was added to set more secure cookie handling in the application.
- Previously, the login form on the ThoughtSpot application provided an autocomplete feature.
   Autocomplete is no longer support. Turning off autocomplete prevents intruders from compromising ThoughtSpot from a workstation unattended using a previously stored user ID and/or password.
- Previously, alerts were time stamped with in PDT. This was fixed, now tscli alert list shows alerts display in the cluster's local timezone.
- The system now validates both the format and the size of profile pictures, previously these
  were not checked.

### 4.4 Fixed issues

These are the issues we fixed in ThoughtSpot Release 4.4.

- Aggregation over group\_max returned a red bar error. This was resolved, users can now aggregate over a group\_max function.
- A problem with editing formulas was resolved where users were repeatedly and unnecessarily presented with disambiguation options.

- An issue was resolved where a bar on the chart label did not match the underlying data. The data was correct, the label was not.
- An issue was corrected where, if one snapshot deletion failed in any fashion, any subsequent attempts to delete a snapshot failed.
- · Users were unable to edit a KPI formula if the KPI formula was pinned to a Pinboard.
- Users were able to Select All for 1000+ items in a Pinboard filter. This action was available
  but not supported and caused users to believe Pinboard filters were not working. Now, the
  option to Select All no longer functions when there are 1000+ items in a filter.
- Users were unable to restore a database backup without first renaming the backup.
   Renaming is no longer required.
- Creating a formula on cumulative\_sum function mistakenly caused an error to appear. This
  action no longer causes an error.
- Some installations saw worksheet performance degrade for worksheets with a large number of columns. Users can now set a configuration option to avoid these problems.
- Previously setting both the browser and the ThoughSpot profile value failed to display
  numbers and date formats in the proper locale. This problem was corrected. Setting the
  ThoughtSpot profile to the proper locale results in the appropriate display of date and number
  formats. It also causes translated strings to appear in the interface where they exist.
- Active directory (AD) synchronization was not working. Moreover, if AD security group had no
  members in it, then the synchronization did not recognize the group at all. These problems
  were corrected, empty groups are recognized and users moved between groups now are
  properly synchronized by ThoughtSpot.
- A problem was resolved where the round function returned a negative zero when it should have returned a 0 (zero).
- Visualizations that relied on chasm trap worksheet were not immediately updated when a
  formula was changed. The workaround was to manually update the visualization. This was
  corrected. The system now updates the visualization automatically when an underlying
  formula is changed.
- On a worksheet with a chasm trap, join between a fact and dimension did not work properly
  when grouping by a measure on the dimension table. This was fixed.
- · Using safe\_divide and sum did not work with formula on formula. This problem was fixed.
- Data connected schedules did not adjust for daylight savings time. Now, the schedules adjust as expected.
- The ThoughtSpot tomcat instance went into crash loop when a generic relationship includes
   IS NULL operator. Now, this relationship no longer causes this problem.
- An ODBC connection between Alteryx and ThoughtSpot was failing. This problem was solved

- by updating the ODBC drivers to the latest versions.
- An issue was fixed where an unnecessary right-outer join was being applied to row-level security RLS-introduced joins. This situation led to impacts on query performance.
- A problem was resolved with multiple sequential joins. Previously, the proper join path was
  not used when the fields are pulled from tables that were far apart unless fields from the
  intermediate tables were also used. Now, ThoughtSpot is able to handle multiple sequential
  joins.
- Resolved an issue with a chasm trap that used unique count on shared dimension. The chasm trap was generating an incorrect query. Now, unique count is applied correctly in the final query.
- Previously, a user that created some row-level security (RLS) rules was associated with the
  rules such that deleting the user also deleted the rules. This is no longer the case. If a user
  creates a set of RLS rules and that user is subsequently deleted, the rules persist in the
  system.
- · An issue was resolved where filters could only be edited in the search bar.
- Intermittent, ambiguous red bar errors related to chasm trap situations were resolved.
- The help for row-level security rules was complicated and hard to parse. This text was improved and moved into the Query Visualizer.

## **Accessibility**

We at ThoughtSpot design and develop interfaces with accessibility guidelines and principles in mind, as outlined in the Section 508 Amendment to the Rehabilitation Act of 1973 (https://www.section508.gov/manage/laws-and-policies) and the Web Content Accessibility Guidelines (WCAG) 2.1 (https://www.w3.org/TR/WCAG21/), so that users with disabilities have a good experience with our products.

This report covers the degree of conformance to the WCAG 2.1 accessibility standard:

Thoughtspot Accessibility Conformance Report (https://www.thoughtspot.com/sites/default/files/pdf/Thoughtspot-Accessibility-Conformance-Report-WCAG-Edition.pdf)

## Downloads for ThoughtSpot

If you are looking for ThoughtSpot clients or API files, you've come to the right place. Click to download the driver you need, or link to the appropriate guide.

#### **JDBC Drivers**

ThoughtSpot provides the following JDBC drivers:

· JDK 1.8

thoughtspot\_jdbc42jar (https://thoughtspot.egnyte.com/dl/spCdjCGssK/thoughtspot\_jdbc4.jar\_)

· JDK 1.7

thoughtspot\_jdbc41.jar (https://thoughtspot.egnyte.com/dl/HVpvNLw3O8/thoughtspot\_jdbc41.jar\_)

· JDK 1.6

thoughtspot\_jdbc4.jar (https://thoughtspot.egnyte.com/dl/RvFilEfcLm/thoughtspot\_jdbc4.jar\_)

See JDBC Driver Overview [See page 0] on instructions for installing and configuring JDBC drivers.

#### **ODBC Drivers**

- Windows: ThoughtSpot\_windows\_odbc\_4.2.zip (https://thoughtspot.egnyte.com/dl/xtGeQPL3nD/ThoughtSpot\_windows\_odbc\_4.2.zip\_)
   See Install the ODBC driver on Windows [See page 0]
- Linux: ThoughtSpot\_odbc\_linux\_3.8.tar.gz (https://thoughtspot.egnyte.com/dl/84csZ4USEX/
  ThoughtSpot\_odbc\_linux\_3.8.tar.gz\_)

  See Install the ODBC driver on Linux [See page 0]

### JavaScript API

For the JavaScript API, see the JavaScript API library (https://thoughtspot.egnyte.com/dl/D8tblCaVbR/).