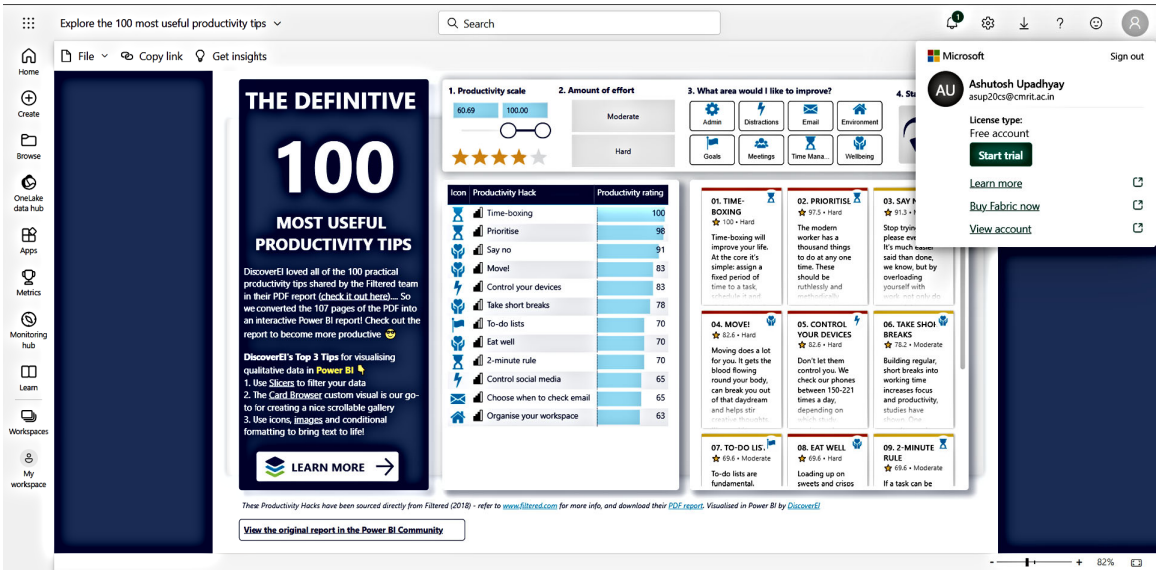
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Create
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Distractions
Email
Environment
Goals
Meetings
Time Mana...
Wellbeing
Icon
Productivity Hack
Productivity rating
Time-boxing 100
Prioritise 98
Say no 91
Move! 83
Control your devices 83
Take short breaks 78
To-do lists 70
Eat well 70
2-minute rule 70
Control social media 65
Choose when to check email 65
Organise your workspace 63
01. TIME-BOXING
02. PRIORITISE
04. MOVE!
05. CONTROL YOUR DEVICES
06. TAKE SHORT BREAKS
07. TO-DO LIS...
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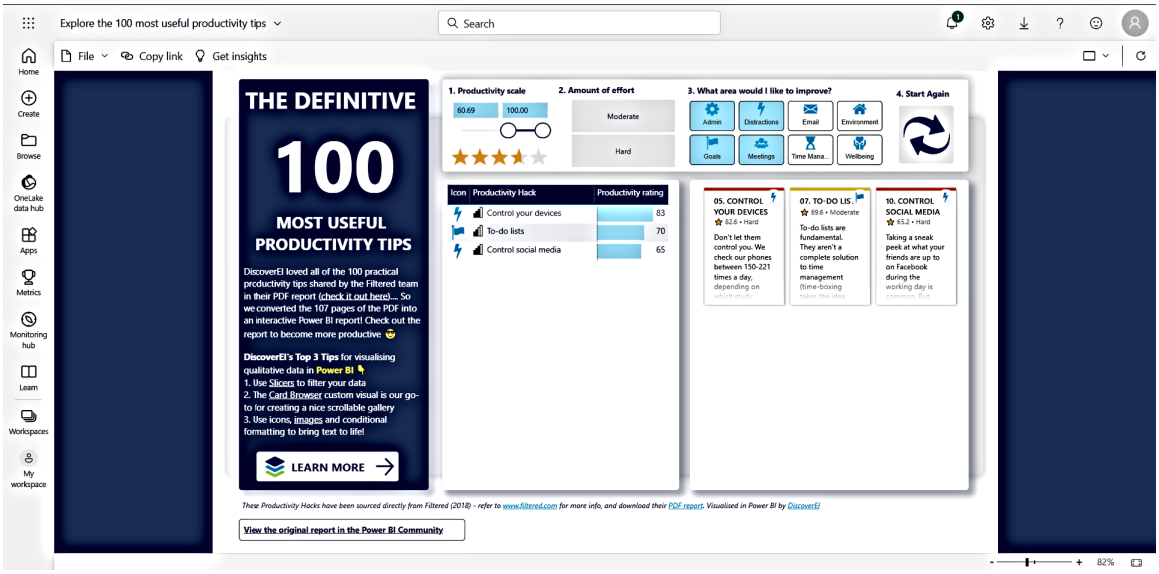
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Moderate
Hard
3. What area would I like to improve?
Admin
Distractions
Email
Environment
Goals
Meetings
Time Mana...
Wellbeing
4. Start Again
Icon
Productivity Hack
Productivity rating
Control your devices 83
To-do lists 70
Control social media 65
05. CONTROL YOUR DEVICES
07. TO-DO LIS...
10. CONTROL SOCIAL MEDIA
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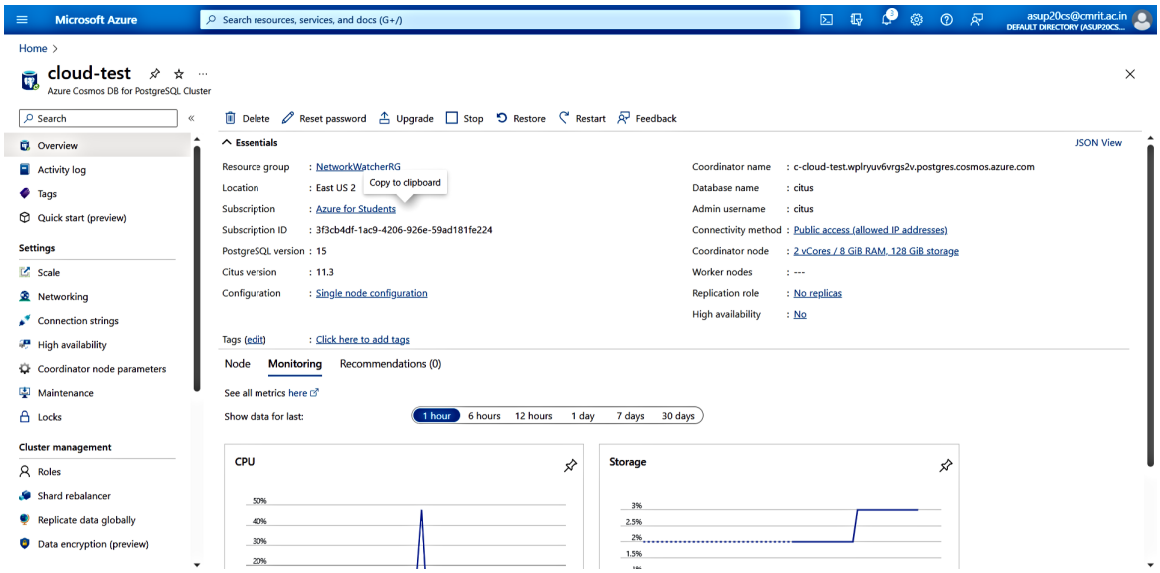
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Home
cloud-test
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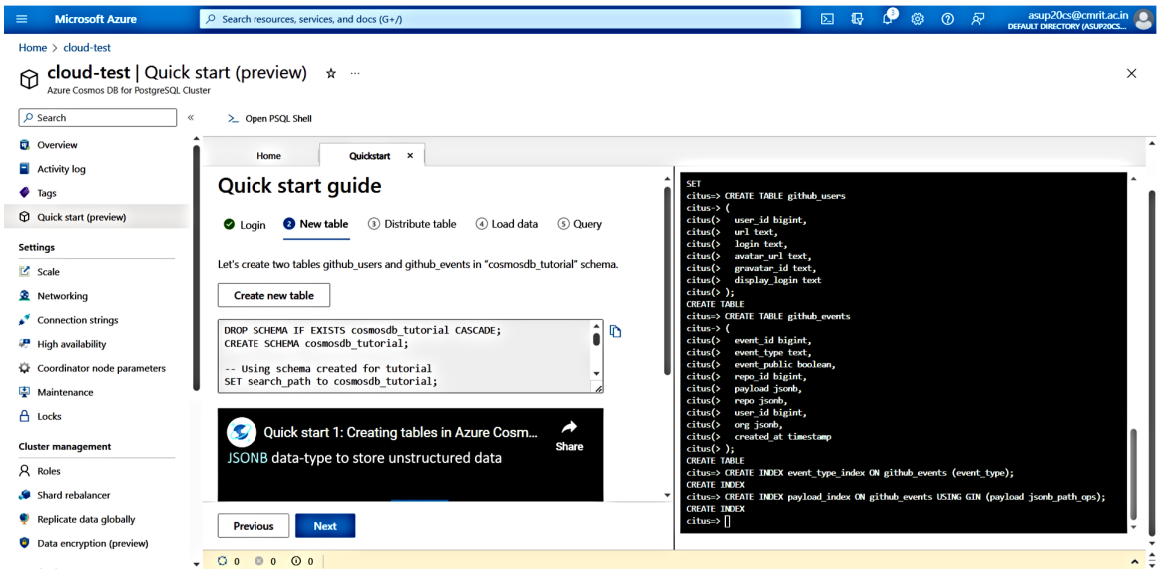
Search
Overview
Activity log
Tags
Quick start (preview)
Settings
Scale
Networking
Connection strings
High availability
Coordinator node parameters
Maintenance
Locks
Cluster management
Roles
Shard rebalancer
Replicate data globally
Data encryption (preview)
Delete
Reset password
Upgrade
Stop
Restore
Restart
Feedback
Essentials
JSON View
Resource group : NetworkWatcherRG
Location : East US 2
Copy to clipboard
Subscription : Azure for Students
Subscription ID : 3f3cb4df-1ac9-4206-926e-59ad181fe224
PostgreSQL version : 15
Citus version : 11.3
Configuration : Single node configuration
Coordinator name : c-cloud-test.wplryuv6vrgs2v.postgres.cosmos.azure.com
Database name : citus
Admin username : citus
Connectivity method : Public access (allowed IP addresses)
Coordinator node : 2 vCores / 8 GiB RAM, 128 GiB storage
Worker nodes : ---
Replication role : No replicas
High availability : No
Tags (edit) : Click here to add tags
Node
Monitoring
Recommendations (0)
See all metrics here
Show data for last:
1 hour
6 hours
12 hours
1 day
7 days
30 days
CPU
50%
40%
30%
20%
Storage
3%
2.5%
2%
1.5%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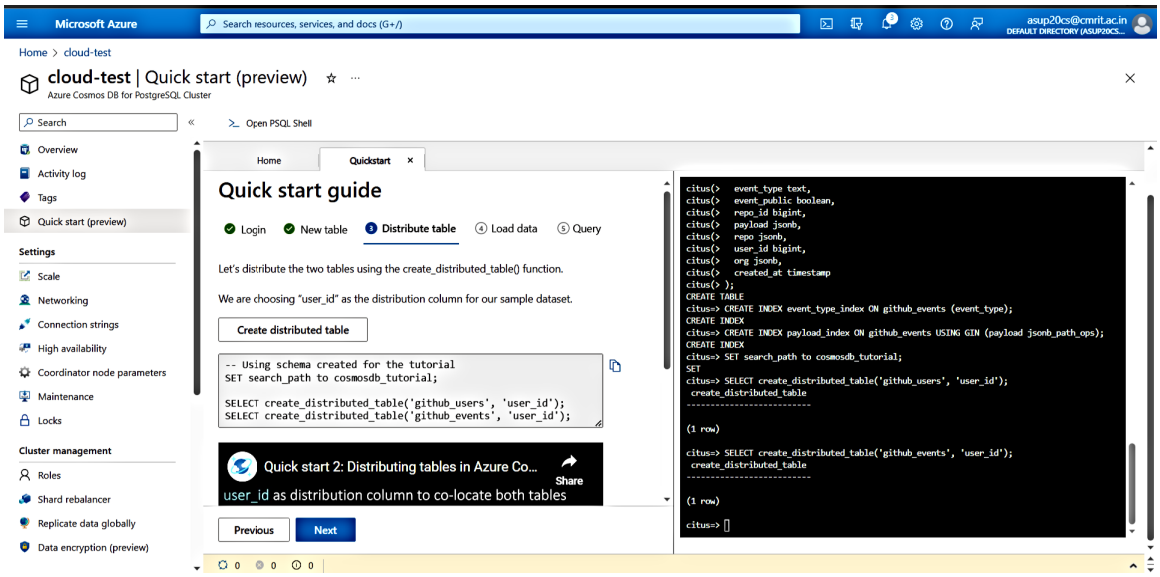
Search
Open PSQL Shell
Overview
Activity log
Tags
Quick start (preview)
Settings
Scale
Networking
Connection strings
High availability
Coordinator node parameters
Maintenance
Locks
Cluster management
Roles
Shard rebalancer
Replicate data globally
Data encryption (preview)
Home
Quickstart
Quick start guide
Login
2 New table
3 Distribute table
4 Load data
5 Query
Let's create two tables github_users and github_events in "cosmosdb_tutorial" schema.
Create new table
DROP SCHEMA IF EXISTS cosmosdb_tutorial CASCADE;
CREATE SCHEMA cosmosdb_tutorial;
-- Using schema created for tutorial
SET search_path to cosmosdb_tutorial;
Quick start 1: Creating tables in Azure Cosm...
Share
JSONB data-type to store unstructured data
Previous
Next
SET
citus=> CREATE TABLE github_users
citus-> (
citus(> user_id bigint,
citus(> url text,
citus(> login text,
citus(> avatar_url text,
citus(> gravatar_id text,
citus(> display_login text
citus(>);
CREATE TABLE
citus=> CREATE TABLE github_events
citus-> (
citus(> event_id bigint,
citus(> event_type text,
citus(> event_public boolean,
citus(> repo_id bigint,
citus(> payload jsonb,
citus(> repo jsonb,
citus(> user_id bigint,
citus(> org jsonb,
citus(> created_at timestamp
citus(>);
CREATE TABLE
citus=> CREATE INDEX event_type_index ON github_events (event_type);
CREATE INDEX
citus=> CREATE INDEX payload_index ON github_events USING GIN (payload jsonb_path_ops);
CREATE INDEX
citus=>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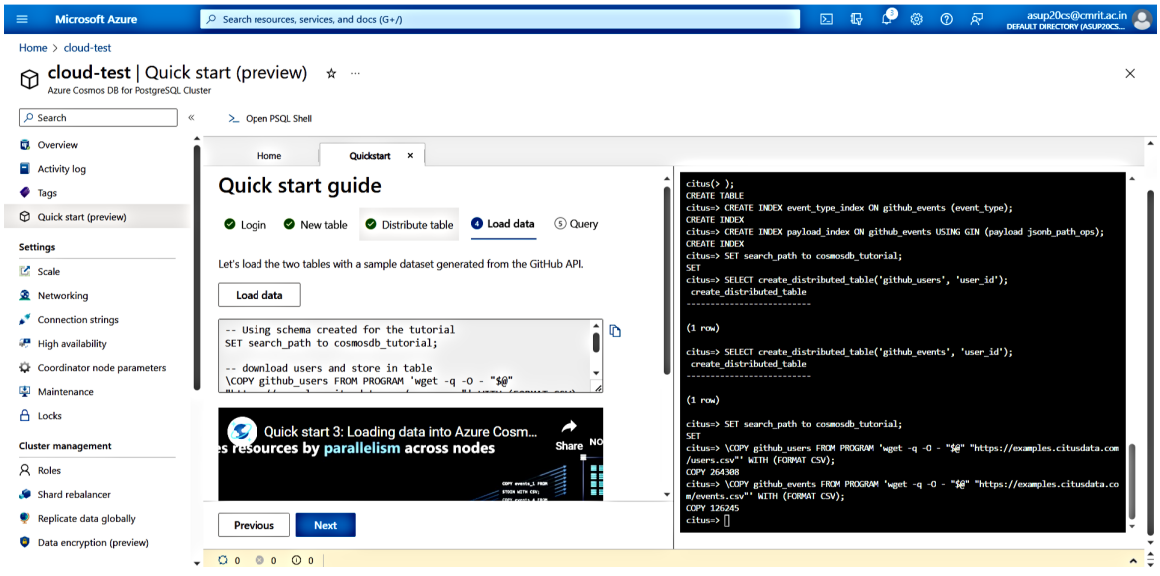
Search
Open PSQL Shell
Overview
Activity log
Tags
Quick start (preview)
Settings
Scale
Networking
Connection strings
High availability
Coordinator node parameters
Maintenance
Locks
Cluster management
Roles
Shard rebalancer
Replicate data globally
Data encryption (preview)
Home
Quickstart
Quick start guide
Login
New table
3 Distribute table
4 Load data
5 Query
Let's distribute the two tables using the create_distributed_table() function.
We are choosing "user_id" as the distribution column for our sample dataset.
Create distributed table
-- Using schema created for the tutorial
SET search_path to cosmosdb_tutorial;
SELECT create_distributed_table('github_users', 'user_id');
SELECT create_distributed_table('github_events', 'user_id');
Quick start 2: Distributing tables in Azure Co...
Share
user_id as distribution column to co-locate both tables
Previous
Next
citus(> event_type text,
citus(> event_public boolean,
citus(> repo_id bigint,
citus(> payload jsonb,
citus(> repo jsonb,
citus(> user_id bigint,
citus(> org jsonb,
citus(> created_at timestamp
citus(>);
CREATE TABLE
citus=> CREATE INDEX event_type_index ON github_events (event_type);
CREATE INDEX
citus=> CREATE INDEX payload_index ON github_events USING GIN (payload jsonb_path_ops);
CREATE INDEX
citus=> SET search_path to cosmosdb_tutorial;
SET
citus=> SELECT create_distributed_table('github_users', 'user_id');
create_distributed_table
(1 row)
citus=> SELECT create_distributed_table('github_events', 'user_id');
create_distributed_table
(1 row)
citus=>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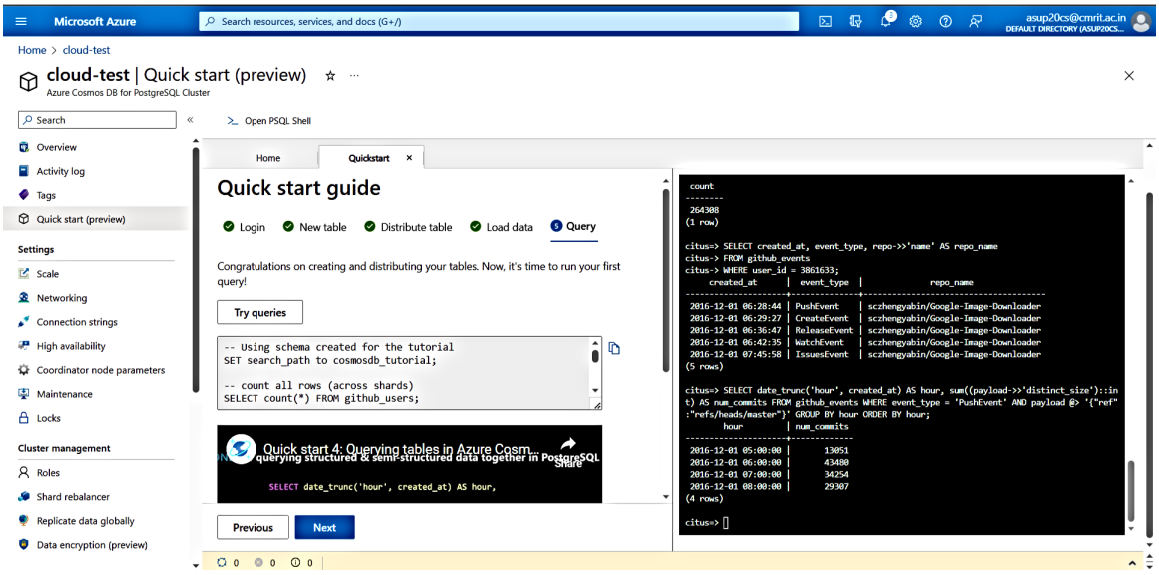
Search
Open PSQL Shell
Overview
Activity log
Tags
Quick start (preview)
Settings
Scale
Networking
Connection strings
High availability
Coordinator node parameters
Maintenance
Locks
Cluster management
Roles
Shard rebalancer
Replicate data globally
Data encryption (preview)
Home
Quickstart
Quick start guide
Login
New table
Distribute table
4 Load data
5 Query
Let's load the two tables with a sample dataset generated from the GitHub API.
Load data
-- Using schema created for the tutorial
SET search_path to cosmosdb_tutorial;
-- download users and store in table
\COPY github_users FROM PROGRAM 'wget -q -O - "$@"
Quick start 3: Loading data into Azure Cosm...
Share
resources by parallelism across nodes
Previous
Next
citus(>);
CREATE TABLE
citus=> CREATE INDEX event_type_index ON github_events (event_type);
CREATE INDEX
citus=> CREATE INDEX payload_index ON github_events USING GIN (payload jsonb_path_ops);
CREATE INDEX
citus=> SET search_path to cosmosdb_tutorial;
SET
citus=> SELECT create_distributed_table('github_users', 'user_id');
create_distributed_table
(1 row)
citus=> SELECT create_distributed_table('github_events', 'user_id');
create_distributed_table
(1 row)
citus=> SET search_path to cosmosdb_tutorial;
SET
citus=> \COPY github_users FROM PROGRAM 'wget -q -O - "$@" "https://examples.citusdata.com/users.csv"' WITH (FORMAT CSV);
COPY 264308
citus=> \COPY github_events FROM PROGRAM 'wget -q -O - "$@" "https://examples.citusdata.com/events.csv"' WITH (FORMAT CSV);
COPY 126245
citus=>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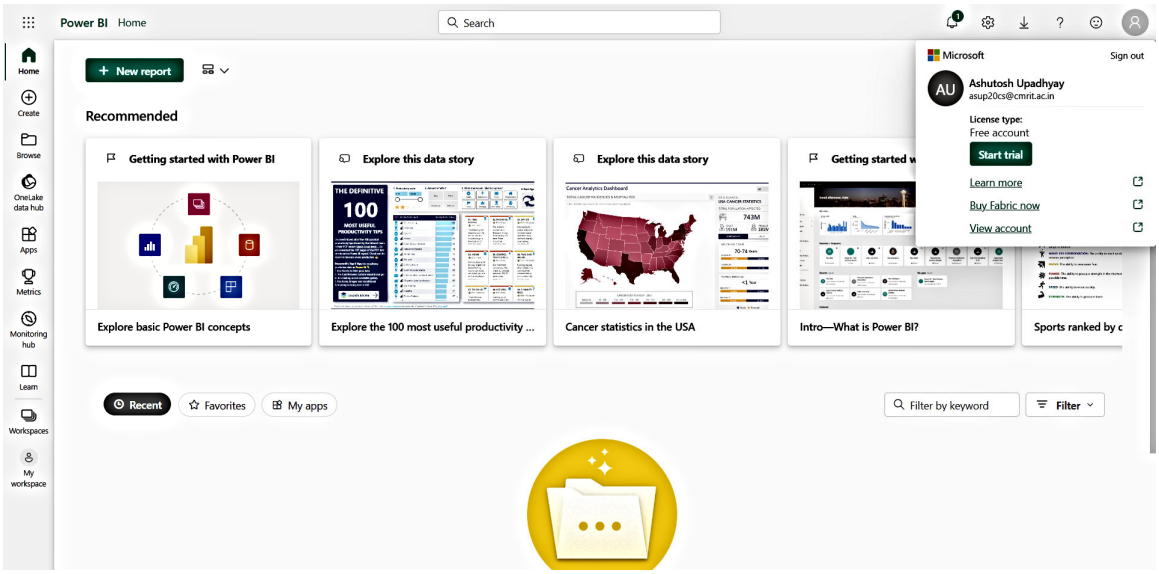
Search
Open PSQL Shell
Overview
Activity log
Tags
Quick start (preview)
Settings
Scale
Networking
Connection strings
High availability
Coordinator node parameters
Maintenance
Locks
Cluster management
Roles
Shard rebalancer
Replicate data globally
Data encryption (preview)
Home
Quickstart
Quick start guide
Login
New table
Distribute table
Load data
Query
Congratulations on creating and distributing your tables. Now, it's time to run your first query!
Try queries
-- Using schema created for the tutorial
SET search_path to cosmosdb_tutorial;
-- count all rows (across shards)
SELECT count(*) FROM github_users;
Quick start 4: Querying tables in Azure Cosm...
querying structured & semi-structured data together in PostgreSQL
Share
SELECT date_trunc('hour', created_at) AS hour,
Previous
Next
count
264308
(1 row)
citus=> SELECT created_at, event_type, repo->>'name' AS repo_name
citus-> FROM github_events
citus-> WHERE user_id = 3861633;
created_at | event_type | repo_name
2016-12-01 06:28:44 | PushEvent | sczhengyabin/Google-Image-Downloader
2016-12-01 06:29:27 | CreateEvent | sczhengyabin/Google-Image-Downloader
2016-12-01 06:36:47 | ReleaseEvent | sczhengyabin/Google-Image-Downloader
2016-12-01 06:42:35 | WatchEvent | sczhengyabin/Google-Image-Downloader
2016-12-01 07:45:58 | IssuesEvent | sczhengyabin/Google-Image-Downloader
(5 rows)
citus=> SELECT date_trunc('hour', created_at) AS hour, sum((payload->>'distinct_size')::int) AS num_commits FROM github_events WHERE event_type = 'PushEvent' AND payload @> '{"ref":"refs/heads/master"}' GROUP BY hour ORDER BY hour;
hour | num_commits
2016-12-01 05:00:00 | 13051
2016-12-01 06:00:00 | 43480
2016-12-01 07:00:00 | 34254
2016-12-01 08:00:00 | 29307
(4 rows)
citus=>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Workspaces
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