JSON, Speed, and User Groups

Jonathan S. Katz
CTO, VenueBook
PostgresOpen 2013
First, Something Completely Different

CREATE UNLOGGED TABLE jsons (  
data json  
);

INSERT INTO jsons  
SELECT  
  row_to_json(ROW(x, x + 2, x + 3))  
FROM generate_series(1,1000000) x;
Is It Fast?

EXPLAIN ANALYZE
SELECT *
FROM jsons
WHERE
    json_extract_path_text(data, 'f2') = '311';

Seq Scan on jsons
    Filter: (json_extract_path_text(data, VARIADIC '{f2}::text[]) = '311'::text)
    Rows Removed by Filter: 999999
Total runtime: 970.356 ms
CREATE INDEX jsons_data_idx ON jsons
 (json_extract_path_text(data, 'f2'));

EXPLAIN ANALYZE
SELECT *
FROM jsons
WHERE
json_extract_path_text(data, 'f2') = '311';

Bitmap Heap Scan on jsons
  Recheck Cond: (json_extract_path_text(data, VARIADIC '{f2}::{text[]} = '311'::{text})
  ->  Bitmap Index Scan on jsons_data_idx
      Index Cond: (json_extract_path_text(data, VARIADIC '{f2}::{text[]} = '311'::{text})
Total runtime: 0.126 ms
New York City PostgreSQL User Group
Step 0

http://www.postgresql.org/community/user-groups/
Step 1
Step 2
Step 2a

- PostgreSQL.eu
- PostgreSQL.us
- PostgreSQL.jp
- PostgreSQL.fr
Step 3
Step 4

July 12, 2012 · 6:30 PM
**Postgres-XC: Write Scalable Database Cluster**

31 Database Users | ★★★★★

Having scalability issues? Attracted to the idea of NoSQL but worried about consistency and having to rewrite your SQL-based applications? Postgres-XC version 1.0 was... [LEARN MORE]

June 19, 2012 · 6:30 PM
**PostGIS: A Gentile Introduction**

72 Database Users | ★★★★★

Have you heard that PostgreSQL is the best database for geospatial data? In a market with several proprietary commercial alternatives, users around the world choose... [LEARN MORE]

May 7, 2012 · 6:30 PM
**Database Hardware Selection**

40 Database Users | ★★★★★

Database servers have hardware requirements different from other infrastructure software, specifically unique demands on I/O and memory. Join PostgreSQL core committer... [LEARN MORE]
Step 4a: Ideas

- What’s new in Postgres
- What you can do in Postgres
- How $ORGANIZATION uses Postgres
- $PGEXTENSION+ Postgres
- $NOSQL + Postgres
- Why $ORGANIZATION moved to Postgres
- Why $ORGANIZATION moved away from Postgres
Step 4b
Schedule

Below is the schedule of talks for PGDay NYC 2013 on March 22nd, 2013 at the ACE Hotel at 20 W 29 St New York, NY 10001

PGDay NYC 2013 will take place all day and includes lunch and a complimentary networking reception with open bar and food at the end of the day.

Tickets for PGDay NYC 2013 can be purchased on the registration page.

If you have any questions, please contact us at contact@nycpgug.org

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<th>Start</th>
<th>End</th>
<th>Liberty Hall A</th>
<th>Liberty Hall C</th>
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<tr>
<td>8:30 a.m.</td>
<td>9 a.m.</td>
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<td>Registration</td>
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<td>9 a.m.</td>
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<td>NYC PostgreSQL User Group</td>
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<td>10 a.m.</td>
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<td>Deploying PostgreSQL on Amazon EC2</td>
<td>Keynote</td>
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<td>:: A Case Study</td>
<td>Keith Alsheimer</td>
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<td>11 a.m.</td>
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<td>Postgres Plus Cloud Database</td>
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<td>Leveraging the power and flexibility of SQL</td>
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<td>everywhere using the CartoDB</td>
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<td>A Postgres-XC Distributed Key-Value Store</td>
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<td>Mason Sharp</td>
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Local => Global

- PGConf.eu 2012: 290 attendees
- PGCon 2013: 240 attendees
Which Means...
Thank You

• Jonathan S. Katz
• @jkatz05