

PostgreSQL GSoC 2014 proposal

Project name

date_trunc() supporting intervals

Short description

The function date_trunc () is conceptually similar to the trunc function for numbers. But now it doesn't have full functionality because intervals are not supporting intervals in date_trunc ().

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Benefits to the PostgreSQL Community

This feature will expand opportunities to work with time in databases. It will do the job with time more flexible and easier.

Quantifiable results

Supporting and correct working with intervals by date_trunc ()

Project Schedule

until May 31

Make code review and solve architecture questions with help of community

1 June – 30 June

Detailed implementation of libraries.

1 July – 31 July

Finish Implementation of libraires and begin testing.

1 August -15 August

Final refactoring, testing and commit.

Some details

In the period until May 31 I need to discover what types of intervals are able to be sent. Also I need to set the stamp of the result.

For example:

```
date_trunc ('week', '1 month 15 day':interval)
```

result

```
'1 month 14 day'
```

or

```
'1 month 2 week'
```

“Stretch goals”

Allow `TIMESTAMP WITH TIME ZONE` to store the original timezone information, either zone name or offset from UTC

Academic experience

I entered the university in 2013. Before entering the university I finished the college in 2012. My graduate work in the college was the client-server application. It was a realization of XMPP. The client was realized in Qt. The client worked with SQLite database and the server worked with MySQL database.

Why is PostgreSQL?

- I'm interested in this idea and believe this project would be useful for the community;
- PostgreSQL is a very respected community. I would be proud to be a part of it;
- PostgreSQL is one of the best DBMS and I would like to make it better.

Links

1) PostgreSQL 9.3.3 Documentation, date_trunc

<http://www.postgresql.org/docs/9.3/static/functions-datetime.html#FUNCTIONS-DATETIME-TRUNC>

2) Discussion the problem of the "stretch goal" in the mailing list of PostgreSQL

<http://www.postgresql.org/message-id/Pine.LNX.4.44.0410211300430.2015-100000@zigo.dhs.org>

I would like to thank Josh Berkus for his feedback in creating this proposal.