

## 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>

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