Twelfth TUC Meeting, at SIGMOD 2019 Amsterdam (July 5, 2019)

LDBC is pleased to announce its Twelfth Technical User Community (TUC) meeting.

LDBC Technical User Community meetings serve to (1) learn about progress in the LDBC task forces on graph benchmarks and graph standards, (2) to give feedback on these, and (3) hear about user experiences with graph data management technologies or (4) learn about new graph technologies from researchers or industry – LDBC counts Oracle, IBM, Intel, Neo4j, Tigergraph and Huawei among its members.

This TUC meeting will be a one-day event on the last Friday of **SIGMOD/PODS 2019** in Amsterdam, The Netherlands, in the conference venue of **Beurs van Berlage**. Please check its tips for **accommodation in Amsterdam**.

Note also that at SIGMOD/PODS in Amsterdam on Sunday, June 30, there is a research workshop on graph data management technology called GRADES-NDA 2019, that may be of interest to our audience (this generally holds for the whole SIGMOD/PODS program, of course).

We welcome all users of RDF and Graph technologies to attend. If you are interested to attend the event, please, contact Damaris Coll (UPC) at damaris@ac.upc.edu to register;

=> registration is free, but required <=

You need to be registered in order to get into the SIGMOD/PODS venue. Friday, July 5, is the final, workshop, day of SIGMOD/PODS, and the LDBC TUC meeting joins the other workshops for coffee and lunch.

In the agenda, there will be talks given by LDBC members and LDBC activities, but there will also be room for a number of short 20-minute talks by other participants. We are specifically interested in learning about new challenges in graph data management (where benchmarking would become useful) and on hearing about actual user stories and scenarios that could inspire benchmarks. Further, talks that provide feedback on existing benchmark (proposals) are very relevant. But nothing is excluded a priori if it is related to graph data management.

Talk proposals can be sent to Peter Boncz (boncz@cwi.nl), who is also the local organizer.

Further, we call on you if you or your colleagues would happen to have contacts with companies that deal with graph data management scenarios to also attend and possibly present. LDBC is always looking to expand its circle of participants in TUCs meeting, its graph technology users contacts but also eventually its membership base.

Agenda

In the TUC meeting, there will be:

- updates on progress with LDBC benchmarks, specifically the Social Network Benchmark (SNB) and its Interactive, Business Intelligence and Graphalytics workloads.
- talks by data management practitioners highlighting graph data management challenges and products

The morning slot (08:30-10:30) is reserved for an LDBC Board Meeting, to which in principle only LDBC directors are invited (that meeting will be held in the same room).

The TUC meeting will start on Friday morning after the morning coffee break of SIGMOD/PODS 2019:

- 08:30-10:30 LDBC Board Meeting (non-public)
- 10:30-11:00 Coffee
- 11:00-12:45 Session 1: Graph Benchmarks
    - 11:00-11:05 welcome & introduction
    - 11:05-11:30 Gabor Szarnyas (BME): LDBC SNB task force - Business Intelligence workload
    - 11:30-11:55 Benjamin Steer (QMUL), Jack Waudby (Newcastle University): Streaming graphs and consistency of graph updates
    - 11:55-12:20 Vasileios Trigonakis (Oracle): Evaluating a new distributed graph query engine with LDBC: Experiences and Limitations
    - 12:20-12:45 Alexandru Iosup (VU Amsterdam): LDBC Graphalytics
- 12:45-14:00 Lunch
- 14:00-15:40 Session 2: Graph Query Languages
    - 14:00-14:25 Juan Sequeda (Capsenta): Property Graph Schema Working Group: A Progress Report
    - 14:25-14:50 Stefan Plantikow (Neo4j) GQL: Scope and features
    - 14:50-15:15 Vasileios Trigonakis (Oracle): Property Graph extensions for the SQL Standard
    - 15:15-15:40 Alin Deutsch (TigerGraph): Modern Graph Analytics Support in GSQL, TigerGraph's Query Language
    - 15:40-16:05 Jan Posiadaa (): executable semantics of graph query language.
- 16:05-16:30 Coffee
- 16:30-17:40 Session 3: Graph System Performance
    - 16:00-16:25 Per Fuchs (CWI): Fast, scalable WCOJ graph-pattern matching on in-memory graphs in Spark
    - 16:25-16:50 Semih Salihoglu (University of Waterloo): Optimizing Subgraph Queries With a Mix of Tradition and Modernity
    - 16:50-15:15 Roi Lipman (RedisGraph): Evaluating Cypher queries and procedures as algebraic operations within RedisGraph
    - 17:15-17:40 Alexandru Uta (VU Amsterdam): Low-latency Spark Queries on Updatable Data

If there is interest, we will organize a social dinner on Friday evening for LDBC attendees.