

Duke University - Membership graph

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Membership graph

Duke's custom UI allows you to graph the membership history of a group. You can specify the interval and the number of occurrences to graph. And you can compare it with a second group. Here is an example of one. A Jira has been created to add something similar to the Grouper UI - [GRP-2279](#)



Here is the code to query the membership count at a given point in time.

```
/**
 * @param pitGroupId
 * @param date
 * @return count of unique subject ids in group at the specified time
 */
public static int getPITMembershipCount(final String pitGroupId, final Date date) {

    return (Integer)HibernateSession.callbackHibernateSession(GrouperTransactionType.READONLY_OR_USE_EXISTING,
        AuditControl.WILL_NOT_AUDIT, new HibernateHandler() {

        public Object callback(HibernateHandlerBean hibernateHandlerBean) throws GrouperDAOException {
            HibernateSession hibernateSession = hibernateHandlerBean.getHibernateSession();

            String timestamp = "" + date.getTime() + "000";
            Connection connection = ((SessionImpl)hibernateSession.getSession()).connection();
            PreparedStatement ps = null;
            ResultSet rs = null;

            try {
                String sql =
                    "select count(distinct pm.subject_id) from grouper_pit_memberships_all_v pma, grouper_pit_fields"
                    pf, grouper_pit_members pm " +
                    " where pma.field_id = pf.id and pma.member_id = pm.id " +
                    " and NOT pm.subject_source='g:gsa' and pf.name='members' " +
                    " and pma.owner_group_id = ? " +
                    " and pma.group_set_start_time < ? and pma.membership_start_time < ?" +
                    " and (pma.group_set_end_time is null or pma.group_set_end_time > ?)" +
                    " and (pma.membership_end_time is null or pma.membership_end_time > ?)" +
                    " and (pma.membership_end_time is null or pma.membership_end_time > pma.group_set_start_time)" +
                    " and (pma.group_set_end_time is null or pma.group_set_end_time > pma.membership_start_time)";

                ps = connection.prepareStatement(sql);
                ps.setString(1, pitGroupId);
                ps.setString(2, timestamp);
                ps.setString(3, timestamp);
                ps.setString(4, timestamp);
                ps.setString(5, timestamp);
                rs = ps.executeQuery();
                rs.next();
                return rs.getInt(1);
            } catch (SQLException e) {
                throw new RuntimeException(e);
            } finally {
                if (rs != null) {
                    try {
                        rs.close();
                    } catch (SQLException e) {
                        // ignore
                    }
                }
            }

            if (ps != null) {
                try {
                    ps.close();
                } catch (SQLException e) {
                    // ignore
                }
            }
        }
    });
}
```