Queries over YAGO and LDBC-SNB datasets

Table 1: Queries for the YAGO Dataset.

YAGO Query ID	Path expressions as CQT queries
Q1	$x1, x2 \leftarrow (x1, isMarriedTo/livesIn/isLocatedIn+/dealsWith+, x2)$
Q2	$x1, x2 \leftarrow (x1, hasChild/livesIn/isLocatedIn+/dealsWith+, x2)$
Q3	$x1, x2 \leftarrow (x1, influences/livesIn/isLocatedIn+/dealsWith+, x2)$
Q4	$x1, x2 \leftarrow (x1, livesIn/isLocatedIn+/dealsWith+, x2)$
Q5	$x1, x2 \leftarrow (x1, hasAcademicAdvisor/livesIn/isLocatedIn+/dealsWith+, x2)$
Q6	$x1, x2 \leftarrow (x1, isLocatedIn+/dealsWith+, x2)$
Q7	$x1, x2 \leftarrow (x1, (actedIn/actedIn)+, x2)$
Q8	$x1, x2 \leftarrow (x1, isLocatedIn+/dealsWith dealsWith, x2)$
Q9	$x1, x2 \leftarrow (x1, isMarriedTo/owns/isLocatedIn+ owns/isLocatedIn+, x2)$
Q10	$x1, x2 \leftarrow (x1, isLocatedIn+/dealsWith, x2)$
Q11	$x1, x2 \leftarrow (x1, isLocatedIn+/dealsWith+, x2)$
Q12	$x1, x2 \leftarrow (x1, wasBornIn/isLocatedIn+/isConnectedTo+, x2)$
Q13	$x1, x2 \leftarrow (x1, wasBornIn/(isLocatedIn isConnectedTo)+, x2)$
Q14	$x1, x2 \leftarrow (x1, wasBornIn/isLocatedIn+, x2)$
Q15	$x1, x2 \leftarrow (x1, isLocatedIn+/(isConnectedTo dealsWith)+, x2)$
Q16	$x1, x2 \leftarrow (x1, -isConnectedTo+/isLocatedIn+, x2)$
Q17	$x1, x2 \leftarrow (x1, isLocatedIn+/isLocatedIn, x2)$
Q18	$x1, x2 \leftarrow (x1, isLocatedIn+/isConnectedTo+/dealsWith+, x2)$

Table 2: Queries for the LDBC-SNB Dataset.

LDBC	Path expressions as CQT queries
Query	
Label	
IC1	$x1, x2 \leftarrow (x1, knows13/(isL (workAt studyAt)/isL), x2)$
IC2	$x1, x2 \leftarrow (x1, knows/-hasC, x2)$
IC6	$x1, x2 \leftarrow (x1, knows12/(-hasC[hasT])[hasT], x2)$
IC7	$x1, x2 \leftarrow (x1, (-hasC/-likes) ((-hasC / -likes) \cap knows), x2)$
IC8	$x1, x2 \leftarrow (x1, -hasC/-replyOf/hasC, x2)$
IC9	$x1, x2 \leftarrow (x1, knows12/-hasC, x2)$
IC11	$x1, x2 \leftarrow (x1, knows12/workAt/isL, x2)$
IC12	$x1, x2 \leftarrow (x1, knows/-hasC/replyOf/hasT/hasTY/isSubC+, x2)$
IC13	$x1, x2 \leftarrow (x1, knows+, x2)$
IC14	$x1, x2 \leftarrow (x1, (knows \cap (-hasC/replyOf/hasC))+, x2)$
Y1	$x1, x2 \leftarrow (x1, knows+/studyAt/isL+/isP+, x2)$
Y2	$x1, x2 \leftarrow (x1, likes/hasC/knows+/isL+, x2)$
Y3	$x1, x2 \leftarrow (x1, likes/reply0f+/isL+/isP+, x2)$
Y4	$x1, x2 \leftarrow (x1, hasM/(studyAt workAt)/isL+/isP+, x2)$
Y5	$x1, x2 \leftarrow (x1, -hasM/([cof]hasT)/hasTY/isSubC+, x2)$
Y6	$x1, x2 \leftarrow (x1, replyOf+/isL+/isP+, x2)$
Y7	$x1, x2 \leftarrow (x1, hasMod/hasI/hasTY/isSubC+, x2)$
Y8	$x1, x2 \leftarrow (x1, ([cof/hasC]hasM)/isL/isP+, x2)$
IS2	$x1, x2 \leftarrow (x1, -hasC/replyOf+/hasC, x2)$
IS6	$x1, x2 \leftarrow (x1, replyOf+/-cof/hasM, x2)$
IS7	x1, x2 \leftarrow (x1, (-hasC/replyOf/hasC) ((-hasC/replyOf/hasC) \cap knows), x2)
BI11	x1, x2 \leftarrow (x1, (([isL/isP]knows)[isL/isP]) \cap (knows/([isL/isP]knows))), x2)
BI10	$x1, x2 \leftarrow (x1, (knows+[isL/isP])/(-hasC[hasT])/hasT/hasTY, x2)$
BI3	x1, x2 \leftarrow (x1, -isP/-isL/-hasMod/cof/-replyOf+/hasT/hasTY, x2)
BI9	$x1, x2 \leftarrow (x1, replyOf+/hasC, x2)$
BI20	$x1, x2 \leftarrow (x1, (knows \cap (studyAt/-studyAt))+, x2)$
LSQB1	x1, x2 \leftarrow (x1, -isP/-isL/-hasM/cof/-replyOf+/hasT/hasTY, x2)
LSQB4	$x1, x2 \leftarrow (x1, ((likes[hasT])[-replyOf])/hasC, x2)$
LSQB5	$x1, x2 \leftarrow (x1, -hasT/-replyOf/hasT, x2)$
LSQB6	$x1, x2 \leftarrow (x1, knows/knows/hasI, x2)$

isL=isLocatedIn, hasT=hasTag, isP=isPartOf, isSubC=isSubClassOf,
hasTY=hasType, coF=containerOf, hasMod=hasModerator, hasC=hasCreator,
hasM=hasMember, hasI=hasInterest