

Csomópontok (node) létrehozása	4ms
<pre> CREATE (Start:Activity {id:1, description:'Start', duration:0, earliest_start:0, earliest_finish:0, latest_start:0, latest_finish:0}), (A:Activity {id:2, description:A', duration:5}), (B:Activity {id:3, description:B', duration:1}), (C:Activity {id:4, description:C', duration:1}), (D:Activity {id:5, description:D', duration:1}), (E:Activity {id:6, description:'E', duration:1}), (F:Activity {id:7, description:'F', duration:1}), (G:Activity {id:8, description:G', duration:5}), (H:Activity {id:9, description:'H', duration:5}), (I:Activity {id:10, description:'I', duration:3}), (J:Activity {id:11, description:'J', duration:3}), (K:Activity {id:12, description:'K', duration:2}), (L:Activity {id:13, description:'L', duration:3}), (M:Activity {id:14, description:M', duration:15}), (N:Activity {id:15, description:N', duration:1}), (O:Activity {id:16, description:'O', duration:70}), (P:Activity {id:17, description:'P', duration:20}), (Q:Activity {id:18, description:'Q', duration:15}), (R:Activity {id:19, description:'R', duration:1}), (S:Activity {id:20, description:'S', duration:7200}), (Stop:Activity {id: 21, description:'Stop', duration:0}) </pre>	

Kapcsolatok (link) megadása	2ms
<pre> CREATE (Start)-[:PRECEDES]->(A), (A)-[:PRECEDES]->(B), </pre>	

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(B) -[:PRECEDES]->(C) ,
(C) -[:PRECEDES]->(D) ,
(D) -[:PRECEDES]->(E) ,
(D) -[:PRECEDES]->(F) ,
(E) -[:PRECEDES]->(G) ,
(E) -[:PRECEDES]->(H) ,
(F) -[:PRECEDES]->(I) ,
(F) -[:PRECEDES]->(J) ,
(G) -[:PRECEDES]->(N) ,
(H) -[:PRECEDES]->(K) ,
(K) -[:PRECEDES]->(N) ,
(I) -[:PRECEDES]->(L) ,
(J) -[:PRECEDES]->(L) ,
(L) -[:PRECEDES]->(M) ,
(M) -[:PRECEDES]->(N) ,
(N) -[:PRECEDES]->(P) ,
(N) -[:PRECEDES]->(Q) ,
(P) -[:PRECEDES]->(O) ,
(Q) -[:PRECEDES]->(O) ,
(O) -[:PRECEDES]->(R) ,
(R) -[:PRECEDES]->(S) ,
(S) -[:PRECEDES]->(Stop)

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Query1: Leghosszabb út

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MATCH p = (:Activity {description:'Start'})-[:PRECEDES*]-
>(:Activity {description:'Stop'})
WITH p, REDUCE(x = 0, a IN NODES(p) | x + a.duration) AS sum_duration
ORDER BY sum_duration DESC
LIMIT 1
RETURN sum_duration AS `Projekt befejezési ideje`

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Query2: $EF_j = ES_j + d_j$	Legkorábbi	befejezési	idő	beállítása
<pre> MATCH p = (:Activity {description:'Start'})-[:PRECEDES*]- >(j:Activity) WITH j, MAX(REDUCE(x = 0, a IN NODES(p) x + a.duration)) AS ef SET j.earliest_finish = ef </pre>				
Query3: $LF_i = \min(LS_j)$	Legkésőbbi	befejezési	idő	beállítása
<pre> MATCH (i:Activity)-[:PRECEDES]->(j:Activity) WITH i, MIN(j.latest_start) AS min_ls SET i.latest_finish = min_ls </pre>				