|  |  |  |  |
| --- | --- | --- | --- |
|  | **根据ID检索论文** | **根据作者ID检索topk文章** | **检索文章的topk被引文章信息** |
| **Mysql** | **0.251 s** | **6.493 s** | **35.190 s** |
| **Neo4j** | **0.239 s** | **3.062 s** | **24.332 s** |

**根据ID检索论文：共有2个join**

**根据作者ID检索topk文章：共有4个join**

**检索文章的topk被引文章信息：共有3个join**

|  |  |  |  |
| --- | --- | --- | --- |
| **作者ID** | **作者Name** | **文章数目** |  |
| 7F612BC9 | **padhraic smyth** | **89** |  |
| **7F7C3054** | **david j hand** | **374** |  |
| **7E7A3A69** | **Jiawei han** | **1050** |  |

|  |  |  |  |
| --- | --- | --- | --- |
| **文章ID** | **被引文章数目** | **Venue** |  |
| **7940DD7C** | **168** | **Mobicom** | **sing mobile relays to prolong the lifetime of wireless sensor networks** |
| **7F90B621** | **6788** |  | **Data Mining: Concepts and Techniques** |
| **7E08D1FC** | **449** | **CSUR** | **Survey of Graph Database Models** |
| **7B132B81** | 2483 |  |  |
|  |  |  |  |

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| --- | --- | --- | --- |
|  | **根据ID检索论文：** | **检索文章的被引文章ID** | **检索作者的文章：** |
| **Mysql** | **0.619s**  **0.251 s** | **11.095**  **4.35** | **2.59**  **6.49** |
| **Neo4j** | 675 ms  239 ms | 6955 ms  3433 ms | 1631 ms  3062 ms |

**Neo4j 10 rows available after 122871 ms, consumed after another 2 ms**

**Mysql 10 rows in set (2 min 25.59 sec)**

**10 rows available after 3978 ms, consumed after another 0 ms**

**10 rows in set (5.85 sec)**

Mysql 根据ID检索论文

SELECT NOW(3);

SELECT p.paID AS ID, p.paYear AS paYear, (SELECT count(\*) FROM tb\_ref r WHERE r.parefID=ID) AS citations, group\_concat(a.athName) AS Name

FROM tb\_Paper p, tb\_Author a, tb\_PAA paa

WHERE p.paID="6A8C1112" AND a.athID = paa.athID AND p.paID = paa.paID

GROUP by ID;

SELECT NOW(3);

SELECT p.paID AS ID, group\_concat(f.fosName) AS Name

FROM tb\_Paper p, tb\_pkw2 kw, tb\_fos2 f

WHERE p.paID in () AND p.paID = kw.pkwID AND kw.fosID = f.fosID

GROUP by ID;

WITH ["7EF39723", "768CAA02", "0507827D", "75457BE3", "80012B65", "76D6E993", "802B9728", "7FEF9D10", "5BA81FEE", "78DC9BBE", "7FADA9AD", "7B9E725D", "597B2754", "76F151D4", "75F4513C", "814CB96A", "794EDF99", "5997608F", "7F9F974A", "7F4432EE", "7BCBEA68", "58A8397A", "7E5AD8D0", "7E602BD6", "7D956B7F", "74796F8B", "02C4C8A1", "58BB0B0F", "033B3C66", "765795B1", "7EE3BC57", "80D1EFBA", "7FB82713", "5B1F0BD1", "59ECB1AF", "7FE60220", "7F9A2B87", "5C4A0426", "70F6685F", "7C26E8E0", "5B047E42", "775A47D4", "5A96F4FF", "5C9CE1E4", "7EDF8560", "76871946", "695E6CF0", "080C30D5", "7E751E23", "729651D2", "60C43D20", "803E6C08", "5A02DEDA", "59BC2F34", "5F4C47AD", "7E34FB12", "7CF6779F", "7D2C001E", "80A562F6", "7790D504", "5A8E52A2", "7D4372AA", "5DE1699D", "826EDCF2", "75090FA3", "7FE12533", "755208ED", "7F98ABA0", "7EA6D493", "0A94409F", "58985896", "772DF5DA", "00B5152C", "7D030346", "845E557E", "80695DC3", "76E32EAC", "7DD768D5", "7B84E98B", "7AE2A3A6", "774494B4", "022F76D4", "78E7952D", "78774F4E", "6E33AEE5", "06DC5190", "7E4545C0", "7D57EEDE", "7FC2D3A7", "318CFED5", "69D55315", "05A2CF52", "8041EDEE", "7B881BCF", "806C0944", "7E46D721", "7E5E19E9", "780380C5", "5F774202", "77072FC6", "7D9B613B", "7B868EB6", "039F8B22", "0D412504", "75615749", "7D33FD65", "632E1F3A", "5F390C51", "7A9A0933", "7E2ADE91", "7FEA9210", "5ECF3120", "7FCB2850", "75F4E42D", "7DE9EB34", "85AACE99", "0836F274", "6080B171", "43ED81AB", "7DABEC23", "7FA97D46", "82CF766A", "7FE7BFA5", "5D57F90D", "781C989C", "7D90FC6E", "7D678A56", "779D6B54", "0208397B", "5EE30D1C", "62490BBF", "8050F57C", "5FE275C8", "59A9BBF1", "02E770A8", "80324CBC", "5E85D6A8", "76FB14D8", "815BEEE3", "7C20FD44", "7D5E7943", "5A8BA582", "80A9054B", "78F89794", "5DE9C12D", "781DE1A6", "77CBAA2E", "7DA2F959", "5C762951", "763D337E", "5895C806", "8006033B", "81939275", "7B5E7014", "8017CDE4", "7D80D13E", "81ADCC84", "7AC77E02", "80DF96CE", "5A38DFB8", "778A1303", "7FB288C5", "7723DFC3", "7728AA59", "7A08A62A", "2ED3622F", "02A46886", "7A4F05CB", "5A55D6D7", "7C00FE26", "78D39FA6", "78B6C71D", "77AA8110", "7634052A", "7BCD3DAA", "7B4250B9", "7869F2EA", "753DF205", "761D175C", "7C4A7A9D", "7CD4EE82", "78885ABF", "7923EC34", "7B798071", "755C540E", "75EA16F7", "797F5117", "7C8766AD", "756B35EB", "833FAD8A", "759C323B", "759B15E1", "8156D4D5", "751C2E18", "83197C7A", "757E065A", "7828C825", "761073AF", "765AA75A", "08B18FF6", "7555D83E", "7A25CBA6", "5B138073", "7A61D099", "76F38A86", "7D0DD7B5", "0CD93E65", "76F7B7B5", "7863E17A", "7659ED78", "75C05189", "58A94210", "7D1800BE", "60FF4E27", "75A04552", "792E3DE4", "773F980D", "75FC7586", "764C44F9", "778C141C", "77DFF7F1", "799C1F1D", "7EBC8311", "7FA9FF36", "78C0C59D", "76578B78", "7C60BFF0", "77292A65", "7611205F", "7A7CFD8C", "7C18516A", "7E57B026", "58457C59", "7CCEDEE4", "7F3F3584", "7DC29517", "780DC746", "7C27E807", "78A62B62", "7DBDB4E7", "7F1D8EF7", "78EA7D3F", "7623DB12", "759A4032", "780C9215", "781C39A1", "590351E3", "81778BE7", "7C1BD7A7", "74DFE54E", "6292C1DA", "7930CFAB", "796FCB95", "630AD99E", "7A6C22E2", "7B469CDF", "60F84E17", "770F8BAD", "5AAC2E71", "7580DA45", "776506F6", "763A6D21", "5A50F855", "7C3A00FE", "7BAC9376", "7A09F6C4", "78960062", "04229BF9", "02FD1463", "79D01ACE", "7A56606E", "84C91C5E", "7BF38EBE", "7B52E65C", "7BE54365", "794455A3", "78CB8D70", "79DDDFD1", "62FEE553", "764824B4", "771BF7B7", "754A8801", "7C13337D", "7BEB1425", "79C3E678", "7B1D2007", "7AD71A24", "7C6908A6", "75E3636A", "7CA0B051", "77FAA5FF", "796FCD90", "7AF1FDCF", "7BD530C9", "052698B5", "7878D436", "77C8B2F6", "7AA0E285", "7B5BE6C5", "75843D52", "7C7019A0", "7975B095", "77B447DF", "76F776B2", "7CFE3375", "7B99B5C9", "77A73D1E", "0C1F4863", "78009352", "7F570214", "7DD7CCE1", "775FEE3B", "76EC53E0", "7ADFBA14", "75CAE2ED", "794D6C67", "7B4BF4EA", "7BBF9E93", "795BDA67", "7574ECE0", "77A7905C", "77C11933", "8153A17C", "7C2AA087", "80487F5E", "74512494", "763046C9", "5C226B64", "7A7C12F5", "80F50462", "751B6D4F", "7CB37E8F", "6AD32FD1", "7EF3F23C", "8018F9DB", "7B9B19AF", "5F5113BB", "7647F081", "7723CEE5", "777F8ABE", "5D935DD3", "81C8F459", "7C011F51", "5C2ECD0B", "7E6CF70B", "7E05B1B7", "594E47DE", "248023F4", "5BB32D38", "7AFB5647", "0ECCA867", "757DC054", "7F3EE933", "7C5DCDFA", "7A643355", "780D0E66", "772793E9", "75E53862", "75491555", "7B83AE75", "7AED02DF", "7A34E5A7", "7ADE0C7F", "77804D12", "5FE76C2A", "7B9E9D68", "7AAB45E3", "797E38BA", "7F3C7134", "7725E592", "77F7A192", "78966F02", "8059E1BE", "806154A3", "7EED9A98", "7FDF82B9", "76B8D818", "83B71023", "766222DA", "761B1A79", "76D42DDE", "75BF886E", "80E6ACB0", "806298AD", "7E964E84", "7BE2456C", "7BE4AE27", "771C3C09", "7B155DC5", "7C5F09AE", "7C1761E1", "5AB6F452", "7AE4B6B6", "77B8F624", "7A1649A6", "78B22462", "824D9CFB", "7469420D", "044C7617", "7FBB149B", "787B578F", "7AB8367F", "76FB15C4", "7917D836", "7D518217", "79855A8A", "757E173B", "79CCA9C0", "1129904B", "7AD2D8A3", "788A8F72", "7C860E9D", "763A46E0", "7816461F", 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"7C75A642", "760BFAE0", "7EAD4AD8", "046166B5", "7C6AE69A", "77765965", "7AF2ED1B", "7A323CB0", "776EBFE5", "781F6C97", "7FADFB91", "769A1BE6", "789B3368", "7BE939F1", "777B3038", "795F8122", "7BA8AF7B", "7649E38B", "7B0498FA", "7BFB4D70", "7A8FD6C3", "78AFC3B1", "76E5F55F", "5A87570B", "1115B89E", "59B61C37", "7F825BC0", "791EC8EA", "04D3A664", "0ED7C00C", "8081737A", "7637149F", "75B6061B", "7E655F31", "78110A6C", "8424B332", "811D3F1B", "7F156757", "7FE8C00E", "7A26036D", "7C0C7C61", "7B18345F", "798F4121", "7535B8A5", "32A11FF9", "77D50FB6", "5BA1F23C", "8032C953", "7A439998", "76BDF7E7", "815ECA7B", "0C161A0E", "031B1FE8", "398949BD", "2EB9ECBC", "7CDB9790", "006EE662", "3BD383D0", "560EC495", "5D81DBE7", "01B78F70", "7D17C1D8", "5AEB4CCD", "76DD1A8E", "7B3B9213", "149E76F9", "7B27BC0C", "7BC19865", "78CE1098", "7AB21C0A", "7BED1BBD", "79C526F8", "782109D1", "7CE0DF6F", "7948102A", "80703309", "7CA9D91D", "78E49E68", "7F2CDC94", "7B7B1D46", "092A800F", "105250BD", "7A59CF8D", 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"78AAAAB1", "816406A4", "75BCBE0B", "7CC4025C", "7C7818F3", "7A4A1C85", "79AEDD40", "835664E2", "804354FD", "7A55B723", "7CAEC80C", "76726D79", "75F62898", "7B3C4FF6", "7A4433B6", "7D1A8541", "79829153", "75FEE6BC", "7FF0435B", "7AD0C2E0", "15C32815", "7700393E", "771086CF", "7F744125", "7B738D17", "79C217E6", "790FCB03", "7BA34467", "77767AF6", "805DEA47", "7C77EA4D", "583ECE88", "80245FB5", "776454B0", "77E72D39", "7B52541A", "7CB27B98", "795DF8F4", "781BA29A", "7C06AE59", "72A8747C", "7A6A551D", "7B2197BE", "7F249F8E", "7AC7134E", "76C65ACE", "75FFD0F8", "76DAFD85", "76FCABB7", "7F03C78F", "7B486906", "7C4C1FDC", "5F301CA9", "761C3813", "779AC575", "770DF065", "7B55D5A8", "7BE67EB4", "7F53973A", "787E506C", "799C93EA", "7FB72A23", "791C3020", "7ACDDBDF", "7FB63457", "7CD6F28B", "7A07D37C", "7681D41F", "7C66F7A1", "7B278E34", "7738C26E", "7B99EB2A", "7AABD852", "5D66FCC4", "7B0E4A12", "7765393A", "78F8BDB2", "79D22E17", "81B92B1C", "785352B9", "76F1719E", "78E12B05", "77280D72", "7682E8A8", "7DE83C74", "752E5A77", "765F4BB5", "774461FE"] AS coll UNWIND coll AS col

MATCH(p:Paper)-[:Pkw]->(f:FOS)

WHERE p.paID = col

WITH DISTINCT (col) as paID, f.fosName as fosName

RETURN paID, COLLECT(fosName) as fosName;

Neo4j 根据ID检索论文

MATCH (p:Paper)-[:PaPAA]->(r)-[:PAAAth]-(a:Author)

WHERE p.paID = "6A8C1112"

WITH DISTINCT ( p.paID ) AS paID, a.athName AS authors, p.paYear AS year, SIZE(()-[:PaRef]->(p)) AS citations, p.paScore AS score

WITH paID, year, COLLECT(authors) AS authors, citations, score

RETURN paID, year, authors, citations

ORDER BY score DESC

|  |
| --- |
| Mysql 根据ID检索论文  SELECT NOW(3);  SELECT p.paID AS ID, p.paYear AS paYear, (SELECT count(\*) FROM tb\_ref r WHERE r.parefID=ID) AS citations, group\_concat(a.athName) AS Name  FROM tb\_Paper p, tb\_Author a, tb\_PAA paa  WHERE p.paID="6A8C1112" AND a.athID = paa.athID AND p.paID = paa.paID  GROUP by ID;  SELECT NOW(3);  Neo4j 根据ID检索论文  MATCH (p:Paper)-[:PaPAA]->(r)-[:PAAAth]-(a:Author)  WHERE p.paID = "6A8C1112"  WITH DISTINCT ( p.paID ) AS paID, a.athName AS authors, p.paYear AS year, SIZE(()-[:PaRef]->(p)) AS citations, p.paScore AS score  WITH paID, year, COLLECT(authors) AS authors, citations, score  RETURN paID, year, authors, citations  ORDER BY score DESC |

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| Neo4j 根据Paper ID检索topk被引文献  MATCH (p1:Paper)-[:PaRef]->(p2:Paper)  WHERE p2.paID = "**7F90B621**"  WITH p1 AS p  ORDER BY p.paScore DESC SKIP 0 LIMIT 10  MATCH (p)-[:PaPAA]->(paa:PAA)-[:PAAAth]-(a:Author)  WITH DISTINCT (p.paID) AS paID,a.athName AS authors, p.paYear AS year, size(()-[:PaRef]->(p)) AS citations, p.paScore AS score  WITH paID, year, COLLECT(authors) AS authors, citations, score  ORDER BY score DESC  RETURN paID, authors, year, citations;  Mysql 根据Paper ID检索topk被引文献  SELECT NOW(3);  SELECT p.paID AS ID, p.paYear AS paYear, (SELECT count(\*) FROM tb\_ref r WHERE r.parefID= ID) AS citations, group\_concat(a.athName) AS Name  FROM tb\_Paper p, tb\_Author a, tb\_PAA paa  WHERE p.paID IN (  SELECT t2.\* FROM (  SELECT p.paID AS ID FROM tb\_Paper p WHERE p.paID IN (  SELECT r.paID AS paID FROM tb\_ref r WHERE r.parefID in ("**7F90B621**")  )order by p.paScore DESC limit 10 offset 0  ) AS t2  )AND a.athID = paa.athID AND p.paID = paa.paID  GROUP by ID Order by p.paScore DESC ;  SELECT NOW(3); |

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| Neo4j 根据Author ID检索作者topk文章  MATCH(a:Author)<-[:PAAAth]-()<-[:PaPAA]-(p:Paper)  WHERE a.athID = "01797DFA "  WITH p  ORDER BY p.paScore DESC SKIP 0 LIMIT 10  MATCH (p)-[:PaPAA]->(r)-[:PAAAth]-(a:Author)  WITH DISTINCT ( p.paID ) AS paID ,a.athName AS authors, p.paYear AS year, SIZE(()-[:PaRef]->(p)) AS citations, p.paScore AS score  WITH paID, year, COLLECT(authors) AS authors, citations, score  RETURN paID, year, authors, citations  ORDER BY score DESC;  Mysql 根据Author ID检索作者topk文章  SELECT NOW(3);  SELECT p.paID AS ID, p.paYear AS paYear, (SELECT count(\*) FROM tb\_ref r WHERE r.parefID= ID) AS citations, group\_concat(a.athName) AS Name  FROM tb\_Paper p, tb\_Author a, tb\_PAA paa  WHERE p.paID IN (  SELECT t2.\* FROM (  SELECT p.paID AS paID FROM tb\_Author a, tb\_PAA paa, tb\_Paper p  WHERE a.athID = "7F612BC9" AND a.athID = paa.athID AND p.paID = paa.paID  order by p.paScore DESC limit 10 offset 0  ) AS t2  )AND a.athID = paa.athID AND p.paID = paa.paID  GROUP by ID order by p.paScore DESC ;  SELECT NOW(3); |

NEO4j根据文章ID检索FOS

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| --- |
| WITH [] AS coll UNWIND coll AS col  MATCH(p:Paper)-[:Pkw]->(f:FOS)  WHERE p.paID = col  WITH DISTINCT (col) as paID, f.fosName as fosName  RETURN paID, COLLECT(fosName) as fosName; |

MYSQL根据文章ID检索文章信息

|  |
| --- |
| SELECT NOW(3);  SELECT p.paID AS ID, p.paYear AS paYear, (SELECT count(\*) FROM tb\_ref r WHERE r.parefID=ID) AS citations, group\_concat(a.athName) AS Name  FROM tb\_Paper p, tb\_Author a, tb\_PAA paa  WHERE p.paID in () AND a.athID = paa.athID AND p.paID = paa.paID  GROUP by ID;  SELECT NOW(3); |

Neo4j根据文章ID检索文章信息

|  |
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| WITH ["7EF39723", "768CAA02", "0507827D", "75457BE3", "80012B65", "76D6E993", "802B9728", "7FEF9D10", "5BA81FEE", "78DC9BBE", "7FADA9AD", "7B9E725D", "597B2754", "76F151D4", "75F4513C", "814CB96A", "794EDF99", "5997608F", "7F9F974A", "7F4432EE", "7BCBEA68", "58A8397A", "7E5AD8D0", "7E602BD6", "7D956B7F", "74796F8B", "02C4C8A1", "58BB0B0F", "033B3C66", "765795B1", "7EE3BC57", "80D1EFBA", "7FB82713", "5B1F0BD1", "59ECB1AF", "7FE60220", "7F9A2B87", "5C4A0426", "70F6685F", "7C26E8E0", "5B047E42", "775A47D4", "5A96F4FF", "5C9CE1E4", "7EDF8560", "76871946", "695E6CF0", "080C30D5", "7E751E23", "729651D2", "60C43D20", "803E6C08", "5A02DEDA", "59BC2F34", "5F4C47AD", "7E34FB12", "7CF6779F", "7D2C001E", "80A562F6", "7790D504", "5A8E52A2", "7D4372AA", "5DE1699D", "826EDCF2", "75090FA3", "7FE12533", "755208ED", "7F98ABA0", "7EA6D493", "0A94409F", "58985896", "772DF5DA", "00B5152C", "7D030346", "845E557E", "80695DC3", "76E32EAC", "7DD768D5", "7B84E98B", "7AE2A3A6", "774494B4", "022F76D4", 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