



(51) **International Patent Classification:**
G06F 16/9032 (2019.01) *G06F 16/176* (2019.01)
G06F 16/13 (2019.01) *H04L 67/562* (2022.01)

(21) **International Application Number:**
PCT/NZ2023/050002

(22) **International Filing Date:**
19 January 2023 (19.01.2023)

(25) **Filing Language:** English

(26) **Publication Language:** English

(30) **Priority Data:**
2022900112 21 January 2022 (21.01.2022) AU

(71) **Applicant:** XERO LIMITED [NZ/NZ]; 19-23 Taranaki Street, Te Aro, Wellington, 6011 (NZ).

(72) **Inventors:** MCFAULL, Cassandra. THORNBURROW, Geoff.

(74) **Agent:** FB RICE PTY LTD; Level 33, 477 Collins Street, Melbourne, Victoria 3000 (AU).

(81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CV, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) **Designated States** (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, CV, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU,

(54) **Title:** METHODS AND SYSTEMS FOR PERFORMING DATABASE OPERATIONS

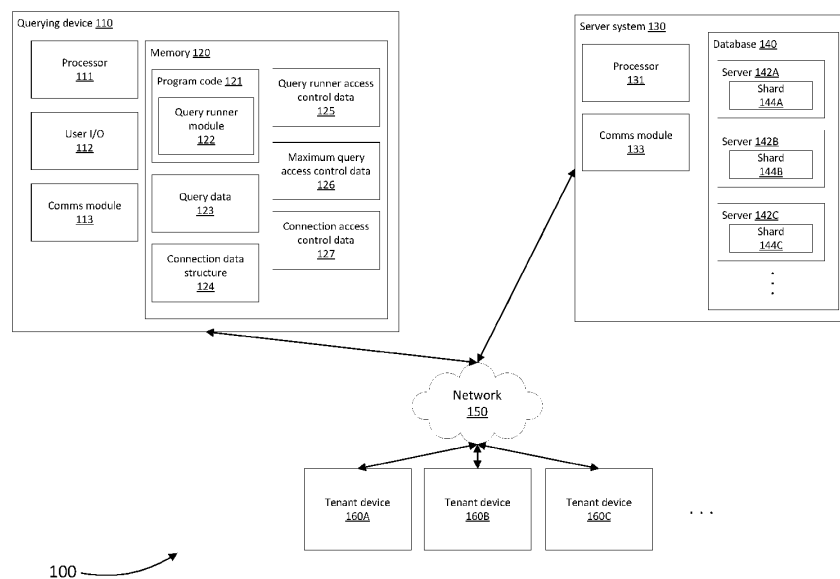


Figure 1

(57) **Abstract:** Embodiments generally relate to a method for performing a query operation on a database. The method comprises selecting a connection to the database from a plurality of connections to the database, the connections being arranged within a data structure and each having a predetermined number of query slots; waiting for a query slot to be available on the selected connection; in response to at least one query slot being available, taking one of the at least one available slots; reordering the plurality of connections within the data structure; causing the query to execute at least partially using the accessed query slot; and releasing the query slot.

[Continued on next page]

LV, MC, ME, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI,
SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN,
GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- *with international search report (Art. 21(3))*
- *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments (Rule 48.2(h))*