(12) UK Patent Application (19) GB (11) 2596769 (13) A

(43) Date of Reproduction by UK Office 05.01.2022

(21) Application No: 2115146.9

(22) Date of Filing: 20.03.2020

Date Lodged: 21.10.2021

(30) Priority Data:
(31) 16371019 (32) 31.03.2019 (33) US

(86) International Application Data:
PCT/IB2020/052602 En 20.03.2020

(87) International Publication Data:
WO2020/201882 En 08.10.2020

(71) Applicant(s):
International Business Machines Corporation (Incorporated in USA - New York)
New Orchard Road, Armonk, New York 10504, United States of America

(72) Inventor(s):
Paula Kim Ta-Shma
Guy Khazma
Gal Lushi

(74) Agent and/or Address for Service:
IBM United Kingdom Limited
Intellectual Property Law, Hursley Park, Hursley, WINCHESTER, Hampshire, SO21 2JN, United Kingdom

(51) INT CL:
G06F 16/22 (2019.01) ***G06F 16/2453*** (2019.01)

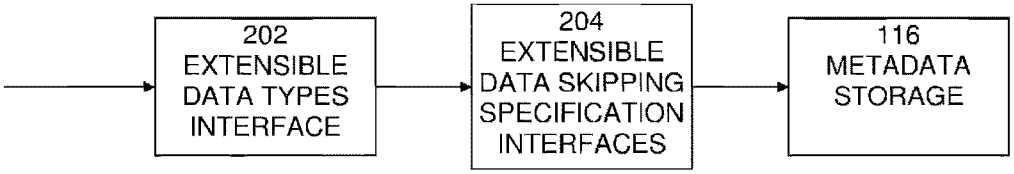
(56) Documents Cited:
US 20180225090 A1 **US 20180011690 A1**
US 20170293649 A1 **US 20100306212 A1**

(58) Field of Search:
INT CL **G06F**
Other: **CNABS; DWPI; SIPOABS; CNTXT; CNKI; IEEE; WPI, EPODOC**

(54) Title of the Invention: **Extensible data skipping**
Abstract Title: **Extensible data skipping**

(57) Embodiments of the present systems and methods may provide techniques for data skipping that may be user defined and extensible. For example, a method may comprise receiving a query, at a computer system comprising a processor, memory accessible by the processor, and computer program instructions stored in the memory and executable by the processor, modifying, at the computer system, the received query to utilize at least one data skipping index to evaluate at least one criterion of the query, wherein the at least one data skipping index comprises an index on at least one attribute of data that excludes index information for at least a portion of those data items that do not meet the at least one criterion, and wherein the at least one data skipping index is generated based on information received from an application programming interface, and evaluating, at the computer system, the query.

Fig. 2



GB 2596769 A

This international application has entered the national phase early.