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/**********
Student Num: 7020466
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Date Written: 26/10/2021
Description: A1, Task2
Save text editor as Task2B.sql
*******************************/
CREATE INDEX AlTask3Idx
ON ORDERS(o_orderdate, o_clerk, o_totalprice);
-- T301
-- Return Index Unique Scan
-- Vertical Scan, index processing only -> No access to RT ORDERS.
EXPLAIN PLAN FOR
SELECT o_orderkey
FROM orders
WHERE o_orderkey = '1798530';
SELECT * FROM TABLE(dbms_xplan.display);
-- T302
-- Return Index Range Scan -> Table Access By Index RowID Batched
-- Vertical -> Horizontal -> No access to RT ORDERS.
EXPLAIN PLAN FOR
SELECT o_totalprice
FROM orders
WHERE o_totalprice > '1000'
AND o_orderdate = '12-DEC-98';
SELECT * FROM TABLE(dbms_xplan.display);
-- T303
-- Return Index Fast Full Scan
-- Horizontal scan the leaf lvl of index -> No access to RT ORDER.
EXPLAIN PLAN FOR
SELECT o_totalprice, o_clerk
FROM orders
WHERE o_clerk = 'Clerk#000000006';
SELECT * FROM TABLE(dbms_xplan.display);
-- T304
-- Return Index Range Scan -> Table Access By Index RowID
-- Vertical -> Has access to RT ORDERS
EXPLAIN PLAN FOR
SELECT o_orderdate
FROM orders
WHERE o_totalprice = '10000'
AND o_orderkey = '123456';
SELECT * FROM TABLE(dbms_xplan.display);
```