

Base de Datos

Laboratorio de Optimización

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Para el presente trabajo practico, se solicita:

- a) ejecutar todas consultas sin los índices abajo detallados
- b) estudiar el plan de ejecución de cada query ejecutado
- Crear los índices que se consideren necesarios (pueden estar entre los sugeridos o no) y ejecutar los mismos select, comparando los distintos planes de ejecución para todas las posibilidades consideradas
- d) Analizar las diferencias que surjan entre los distintos planes de ejecución para el mismo query
- e) Elegir la mejor combinación consulta-índice

Indices sugeridos

- CREATE NONCLUSTERED INDEX fname ON member(firstname)
- CREATE NONCLUSTERED INDEX corp no ON member(corp no)
- CREATE NONCLUSTERED INDEX mem no ON member (member no)
- CREATE UNIQUE nonclustered INDEX mbr_mem_no ON member(member_no)
- CREATE clustered INDEX mbr_corp_no_CL ON member(corp_no)
- CREATE UNIQUE nonclustered INDEX mbr_name ON member(lastname, firstname)
- CREATE nonclustered INDEX chg_mem_no ON charge(member_no)
- CREATE nonclustered INDEX mbr_name ON member(member_no, lastname)
- CREATE nonclustered INDEX chg charge no ON charge(member no, charge no)

Nota: Se utilizara la base de datos Credit., la tabla member contiene 10000 registros

1)SELECT *
FROM member
WHERE firstname LIKE 'Q%'
AND corp_no > 450
AND member_no > 6000

2)SELECT *
FROM member
WHERE firstname LIKE 'Q%'
AND corp_no > 450
AND member_no > 9500

3) SELECT * FROM member

WHERE member_no IN (100,101,102,103,104,105,106,107,108,109,200,201, 202,203,204,205,206,207,208,209,210,211,212,213, 214, 215, 216, 217, 218, 210, 220, 221, 222, 224, 205

 $214,\!215,\!216,\!217,\!218,\!219,\!220,\!221,\!222,\!223,\!224,\!225,$

226,227,228,229,230,231,232)

4) SELECT *

FROM member

WHERE member no IN (100,101,102,103,104,105,106,107,108,109,200,201,

202,203,204,205,206,207,208,209,210,211,212,213,

214,215,216,217,218,219,220,221,222,223,224,225,

226,227,228,229,230,231,232, 233)

5)SELECT *

FROM member

WHERE member no=1234 OR region no=5

6)SELECT *

FROM member

WHERE member_no=1234 OR corp_no=410

7) SELECT *

FROM member

WHERE region no = 5 OR corp no = 410

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8)SELECT member.member_no, lastname, charge_no FROM member JOIN charge ON member.member_no = charge.member_no WHERE member.lastname = 'HAHN' AND firstname = 'CVVD'

9) SELECT m.member_no, lastname, charge_no FROM member m JOIN charge c ON m.member_no = c.member_no WHERE m.lastname = 'HAHN' AND firstname = 'CVVD'

10) SELECT corp_no, count(*) FROM member GROUP BY corp_no

11) SELECT region_no, count(*) FROM member GROUP BY region_no

12)SELECT corp_no, count(*)
FROM member
WHERE member.lastname = 'HAHN'
GROUP BY corp_no
HAVING COUNT(*) > 4

13)SELECT region_no, corp_no, count(*) FROM member GROUP BY region_no, corp_no

14)SELECT region_no, corp_no, count(*)
FROM member
WHERE member.lastname = 'HAHN'
GROUP BY region_no, corp_no

15)SELECT corp_no, region_no, count(*)
FROM member
WHERE member.lastname = 'HAHN'
GROUP BY corp_no, region_no

16)SELECT corp_no, region_no, count(*) FROM member WHERE member.lastname = 'HAHN' GROUP BY corp_no, region_no HAVING COUNT(*) > 4