Partitioning

Friday, May 24, 2019

12:18 PM

Vertical partitioning

A	В	C	D
04 012	Ы b ₂	C2	di dz
?	Y	:	:

 $RI(\underline{A},B,C)$, $R2(\underline{A}.D)$

CREATE VIEW Name AS

SELECT RIA. RI.B. RI.C., R2.D FROM RI, R2 WHERE RI. A=R2.A;

- o difference with with ... as: create view doesn't copy the data.
- o Advantige: Speeds up queries that touch only a small faction of columns; Single column can be compressed effectively, reducing disk 1/0;
- o Disactiontage:

Updates expensive

Need many joins to access many columns Repetited key columns add overlead

· Horizontal Partitioning

CREATE VIEW diset as

(SELECT A.B.C, di AS dName

FROM Rhasdl)

UNION ALL

(SELECT A, B, C, d2 AS d Name

FROM Rhasd2)

UNION ALL:

⇒ SELECT A
FROM Rhascl2

o Application

· Performance optimization

- data warehowing

· Distributed and parallel databases