

VERTICAL FRAGMENTATION

$EMP(EMPNUM, NAME, SAL, TAX, MGRNUM, DEPTNUM)$

$EMP_1 = PJ_{EMPNUM, NAME, MGRNUM, DEPTNUM} EMP$

$EMP_2 = PJ_{EMPNUM, SAL, TAX} EMP$

$EMP = EMP_1 \Join_{EMPNUM = EMPNUM} EMP_2$

FRAGMENT DISJOINTNESS

$EMP_1 = PJ_{EMPNUM, NAME, MGRNUM, DEPTNUM} EMP$

$EMP_2 = PJ_{EMPNUM, NAME, SAL, TAX} EMP$

$EMP = EMP_1 \Join_{EMPNUM = EMPNUM} PJ_{EMPNUM, SAL, TAX} EMP_2$

MIXED FRAGMENTATION

$EMP_1 = SL_{DEPTNUM \leq 10} PJ_{EMPNUM, NAME, MGRNUM, DEPTNUM} EMP$

$EMP_2 = SL_{10 < DEPTNUM \leq 20} PJ_{EMPNUM, NAME, MGRNUM, DEPTNUM} EMP$

$EMP_3 = SL_{DEPTNUM > 20} PJ_{EMPNUM, NAME, MGRNUM, DEPTNUM} EMP$

$EMP_4 = PJ_{EMPNUM, NAME, SAL, TAX} EMP$

$EMP = UN(EMP_1, EMP_2, EMP_3) \Join_{EMPNUM = EMPNUM} PJ_{EMPNUM, SAL, TAX} EMP_4$

