EJERCICIOS TEMA 6

# EJERCICIO 2

## a)

NO HAY INDICES

NO SE PUEDEN ORDENAR LAS TABLAS

TEACHER >< COURSE >< REGISTRATION == T><C><R

ID=COORDINATOR CODE=COURSE

1. (T><C)><R  
   COST(T><C)=SIZE(T)\*SIZE(C)=20\*40=800  
   SIZE(T><C)=SIZE(C)=40  
   COST((T><C)><R)=COST(T><C)+COST(SIZE(T><C)\*SIZE(R))=800+40\*(200ALUMNOS\*10ASIGNATURAS MATRICULA)=80800
2. T><(C><R)  
   COST(C><R)=SIZE(C)\*SIZE(R)=40\*2000=80000  
   SIZE(C><R)=SIZE(R)=2000  
   COST(T><(C><R))=COST(C><R)+COST(SIZE(C><R)\*SIZE(T)=80000+20\*2000=120000

## b)

NO HAY INDICES

SE PUEDEN ORDENAR LAS TABLAS

TEACHER >< COURSE >< REGISTRATION== T><C><R

(T><C)><R

COST(T><C)=

1. ORDENAR C + BI  
   SORT(C)+SIZE(T)\*T\*log2SIZE(C)=  
   SIZE(C)\*log2(SIZE(C))\*SIZE(T)\*t\*log2(SIZE(C))=  
   40\*60+20\*2\*6=480
2. ORDENAR T + BI  
   SORT(T)+SIZE(C)\*T\*LOG2(SIZE(T))=  
   SIZE(T)\*LOG2(SIZE(T))\*SIZE(C)\*T\*LOG2(SIZE(T))=  
   20\*5+40\*1\*5=300
3. BM  
   SORT(T)+SORT(C)+SIZE(T)+SIZE(C)=  
   100+240+20+40=400
4. COST((T><C)><R)=  
   COST(T><C)+COST(SIZE(T><C)\*SIZE(C))=  
   300+40\*40=1900
5. SIZE(T><C)=SIZE(C)=40
6. FB  
   COST(T><C)+COST(SIZE(T><C)\*SIZE(R)=1900+40\*2000=80.000
7. ORDENAR (T><C) + BI  
   SORT(T><C)+SIZE(R)\*t\*log2(SICE(T><C)=SIZE(T><C)\*log2(SIZE(T><C)+SIZE(R)\*t\*log2(SIZE(T><C)