#	Rows	Cost	Pag reads	Time(ms)	Index used	Index Op.
1	72591	.484	531	1171	PK	Clust. Index Scan
		000	10		DI	
2	1	.003	10	2	PK	Clust Index Scan
3	12	.003	10	3	PK	Clust. Index
						Scan
3.b	72591	.488	538	615	PK	Clust. Index
						Scan
4	60	.522	538	15	PK	Clust. Index
						Scan
5	11	.037	30	5	ProductID	NonClustered
6a	11	.003	12	5	PrdID inclu	NonClustered
					StartD	
6b	11	.003	16	88	PrdID inclu	NonClustered
					StartD	
6c	1	.005	18	12	PrdID inclu	NonClustered
					StartD	
7	1	.016	19	7	PrdID and	NonClustered
					StartD	
8	1	.003	14	10	Composite	NonClustered
					(Prdi, StartD)	

9.2

9ª) Inserted 50000 total records

Milliseconds used: 225596

b) avg_frag = 6.71%, avg_page = 28.12

9c) 65 –

Inserted 50000 total records

Milliseconds used: 183543

80-

Inserted 50000 total records

Milliseconds used: 199600

90-

Inserted 50000 total records

Milliseconds used: 186280

9d)

Normal index PK

Inserted 50000 total records

Milliseconds used: 163276

65 fill factor-

Inserted 50000 total records

Milliseconds used: 203056

80 fill factor-

Inserted 50000 total records

Milliseconds used: 203703

90 fill factor-

Inserted 50000 total records

Milliseconds used: 196730

9e)

Com idx;

Inserted 50000 total records

Milliseconds used: 420796

Sem idx:

Inserted 50000 total records

Milliseconds used: 142836

Pode se concluir que a criação de indexes nem sempre corresponde a um funcionamento mais rápido das querys, e que por vezes faz exatamente o contrario. Logo o uso de idx deve ser muito bem estudado antes de implementado numa bd.

```
9.3)
i - Employee -> Ssn (Clustered)
ii – Employee -> Fname + Lname (Nonclustered)
iii - Employee -> Dno (Nonclustered)
   Department -> Dnumber(Clustered)
iv - Works_on -> Pno (Clustered)
   Project -> Pnumber (Clustered)
v - Dependent -> Essn (Clustered)
vi - Project -> Dnum (Nonclustered)
Juntando tudo temos:
Employee:
    Ssn (Clustered)
    Fname + Lname (Nonclustered)
    Dno (Nonclustered)
Department:
    Dnumber (Clustered)
Works_on:
    Pno (Clustered)
Dependent:
    Essn (Clustered)
Project:
    Pnumber (Clustered)
    Dnum (Nonclustered)
```