1. SQL 1. SELECT E.eid, E.ename, E. salary FROM Employees E WHERE E.e.d NOT IN ( SELECT C.eid FROM Certified C ORDER BY E.salary DESC; 2. SELECT E. eid, E. ename. E. salary FROM Employees E INNER JOIN Certified C ON E.eid = Ceid AND E salary > ( SELECT AVG (E. salary) FROM Employees E INNER JOIN Certified C

		ON	Ec	id=C.eic E.salary	ļ	
	)					
	OR	DER	BY	E. salary	•	
				/		
3.	BC					

2	Index and B+ Trees
1.	18 50
	3 8 B 8 B
	2 356 810 1927 3239 1 1445 5258 1 7380 1 9199 1
2.	$(2.d) \times (2.d+1)^h = 2000 \times 3001^2$
	$(2d) \times (2d+1)^h = 3000 \times 3001^2$ $\approx 2.7 \times 10^{10} \text{ records}$

3. File Organization
. J. B
We can do an index-only scan, and less
We can do an index-only scan, and less IOs than the clustered one
For not index-only plans index can do noth but just increosing IOs
but just increasing IOs
V
2. C
With clustered B+ tree index, we can retrieve
the first record with floor = 10, and then all
the first record with floor = 10, and then all the other record with thor = 10 in order of budge
V
C

$$2.1.4 \times 4 + 1 = 17$$
 by tes

$$\frac{2. \quad |28 \times |024 \times 8 - 32 \times 8}{|7 \times 8 + 1|} \approx 765 | \text{ records}$$