## Some useful LaTeX

	Exclude these from $S2$		
FD	when computing closure	Closure	Decision
1	1	There's no way to get $C$ without this FD	keep
2	2	$A^{+} = ACGBEFDH$	discard
3	2, 3	$A^{+} = ACBEFHGD$	discard
4	2, 3, 4	$A^{+} = ACEFHGDB$	discard
5	2, 3, 4, 5	$A^{+} = ACFHGDEB$	discard
6	2, 3, 4, 5, 6	There's no way to get $F$ without this FD	keep
7	2, 3, 4, 5, 7	$BCG^{+} = BCG$	keep
8	2, 3, 4, 5, 8	There's no way to get A without this FD	keep
9	2, 3, 4, 5, 9	There's no way to get $H$ without this FD	keep
10	2, 3, 4, 5, 10	Duplicate FD to (14)	discard
11	2, 3, 4, 5, 10, 11	There's no way to get $B$ without this FD	keep
12	2, 3, 4, 5, 10, 12	$H^+ = HEG$	keep
13	2, 3, 4, 5, 10, 13	There's no way to get $E$ without this FD	keep
14	2, 3, 4, 5, 10, 14	There's no way to get $G$ without this FD	keep

A	В	С	D	G	closure	FDs	
$\checkmark$					$A^+ = A$	nothing	
	✓				$B^+ = BCDAG$	$B \to ACDG$	
		<b>√</b>			$C^+ = CAG$	$C \to AG$ : violates BCNF; abort the projection	

	Appe	ars on	
Attribute	LHS	RHS	Conclusion
D	_	_	must be in every key
A	✓	_	must be in every key
E	_	✓	is not in any key
B, C, F	✓	✓	must check