Query semantic	Type of graph G = (V, E)	Regular Grammar R	CFG C = (Σ, N, P, S)	Conjuctive grammar	CSG
shortest path	general graph	$O(|R||G|\log(|R||G|))$	FP		undecidable
simple path	directed chain	$O(|V|)$	$O(|V|^3)$		PSPACE-complete
	treewidth bounded	FP	NP-complete		PSPACE-complete
	planar/grid graph	NP-complete	NP-complete		PSPACE-complete
relational	general graph		$O(|N||E| + (|N||V|)^3)$	undecidable	
subgraph	acyclic graph		$O(|V|^3 m^3)$		
single-path	general graph		$O(f)$		
all-path	general graph		$O(|N||E| + (|N||V|)^3)$		