Goals/Conditions	Preset Code								
	No connection Pool			Internal Connection Pool			External Connection Pool		
	A	B	C	D	E	F	G	H	I
"Hello World"			✓			✓			
Database load									
Infrequent database access	✓	✓	✓						
Constant high load to database (with possible daily peaks and dips)				✓	✓	✓	✓	✓	✓
Processing options									
Light scheduled tasks	✓	✓	✓						
Light scheduled tasks to generate aggregated reports		✓	✓						
Single-thread data transformation processes	✓	✓	✓						
Multithreaded task processing				✓	✓	✓	✓	✓	✓
Database access									
Write access to database	✓			✓	✓	✓	✓	✓	✓
Read-only access to database	✓	✓	✓	✓	✓	✓		✓	✓
Mostly for read-only access to database	✓	✓	✓	✓	✓	✓		✓	✓
Connection URL									
Use writer cluster endpoint	✓	✓	✓	✓	✓	✓	✓	✓	✓
Use reader cluster endpoint	✓	✓	✓	✓	✓	✓		✓	✓
Use instance endpoint or IP address	✓	✓	✓	✓	✓	✓			
Load balancing									
Split load between write and read operations				✓	✓	✓			
Load balancing for replicas				✓	✓	✓			
Various load balancing strategies for read-only connections				✓	✓	✓			
"Single connection for both reads and writes"				✓	✓	✓			
DB Cluster Failover									
Fast (native) db cluster failover support by the driver				✓	✓	✓	✓	✓	✓
App needs to implement a simplest retry strategy to handle cluster failover and network outages	✓	✓	✓						
Query types									
Fast and predictable SQL (small execution time deviation, within msec to sec range), execution time 0-5s	✓			✓			✓		
Long-running and less predictable SQL (large execution time deviation, from seconds to minutes and hours)		✓	✓		✓	✓		✓	✓
Error handling strategy									
App should re-do entire business transaction by dropping db connection and opening a new one	✓	✓	✓	✓	✓	✓	✓	✓	✓
App can recover from db connection errors and continue with the same connection				✓	✓	✓			
Runtime environment									
Runtime environment DOESN'T allows easy configuration of tcpKeepAlive as needed (Windows, light cloud pods, specific firewalls blocking tcpKeepAlive packets)	✓		✓	✓		✓	✓		✓
Runtime environment allows easy configuration of tcpKeepAlive as needed (like Linux)	✓	✓		✓	✓		✓	✓	
Required manual configuration									
Runtime environment should be configured for tcpKeepAlive settings. (The driver can only activate or deactivate it.)		✓			✓			✓	
App should configure connection pool by itself							✓	✓	✓