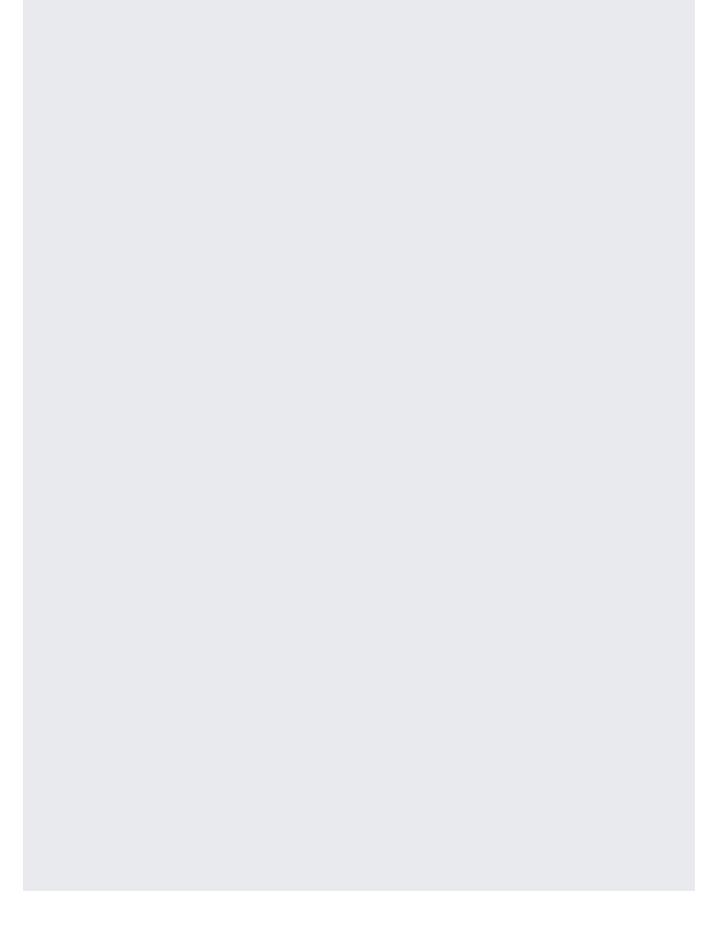
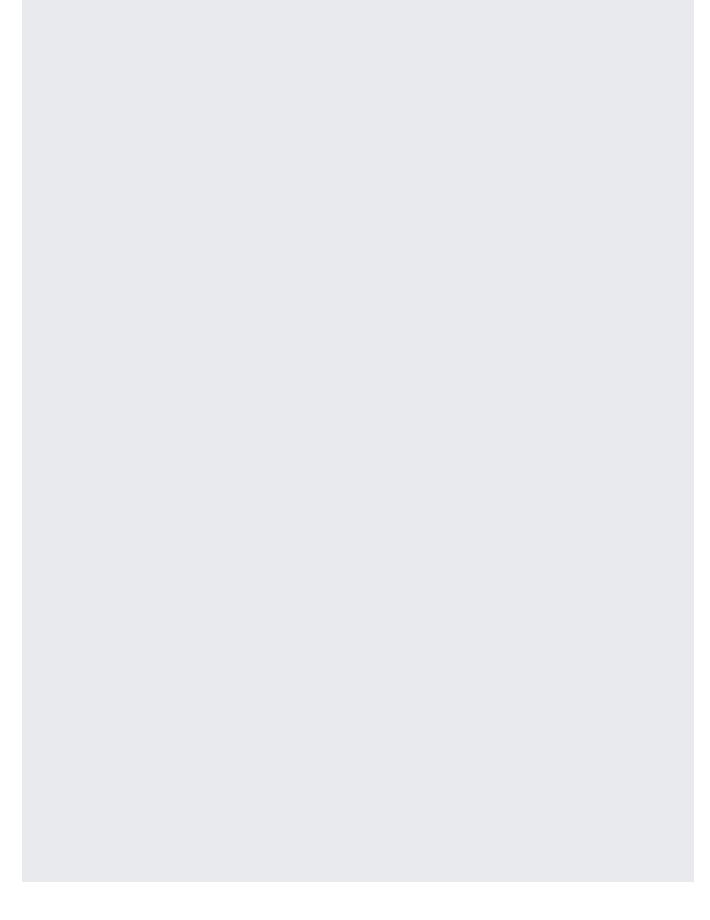
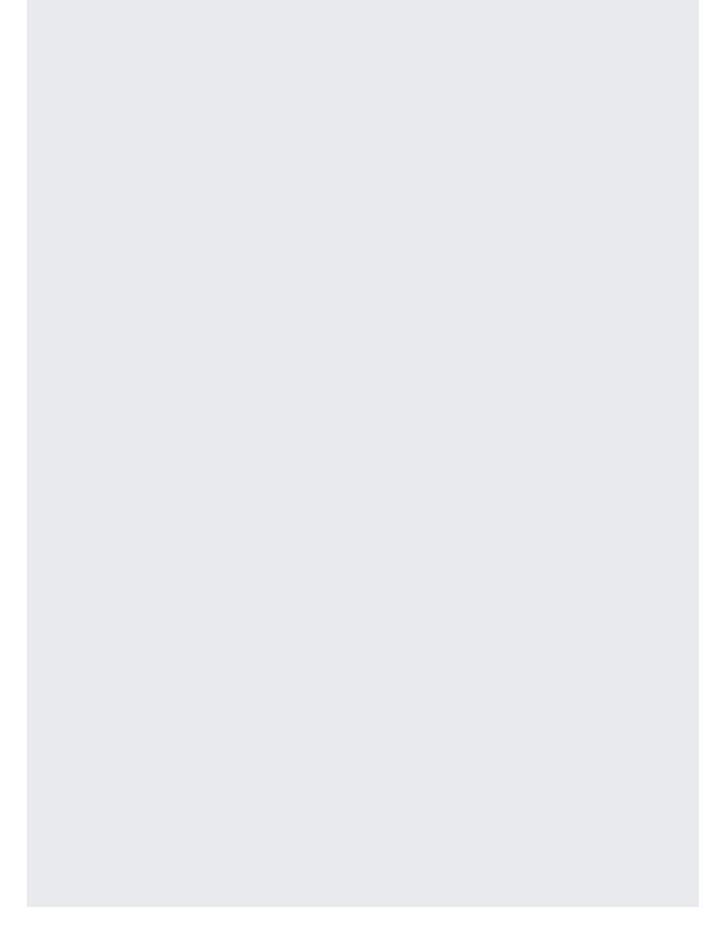
	ud Spanner allows you t bound parameters when				_
	more information about panner/docs/data-types#st		Cloud Spanner, s	see <u>Data types</u>	
	ı can declare a STRUCT ol e (/spanner/docs/data-type		-	scribed in <u>Declarin</u> g	g a STRUCT
car	u can define a type of STI then supply this type al ud Spanner will use it to	ong with queries co	ntaining STRUCT-	typed parameter b	indings and

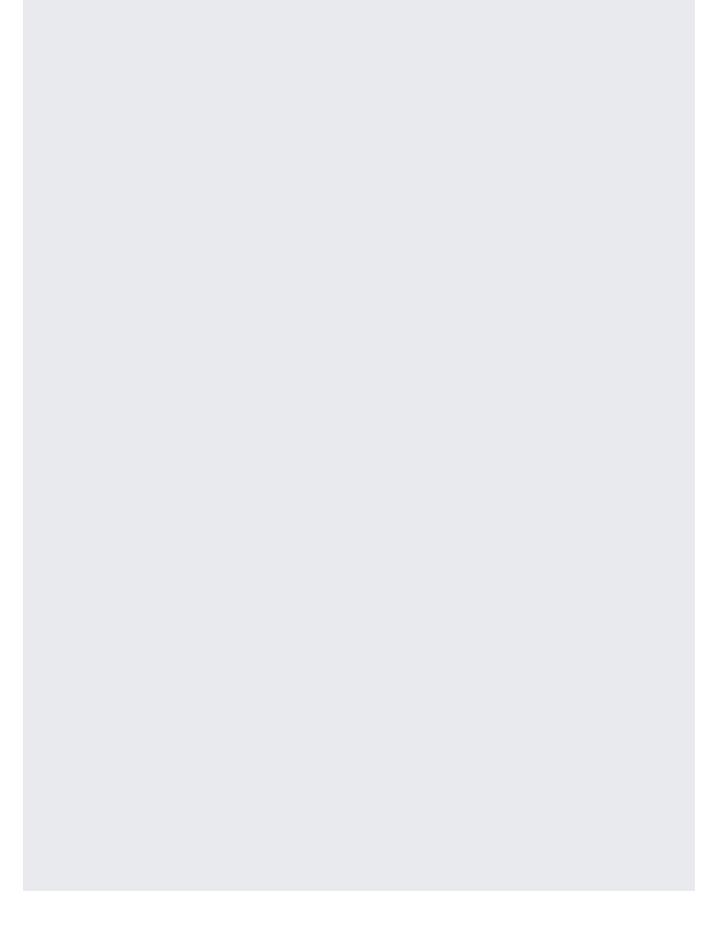


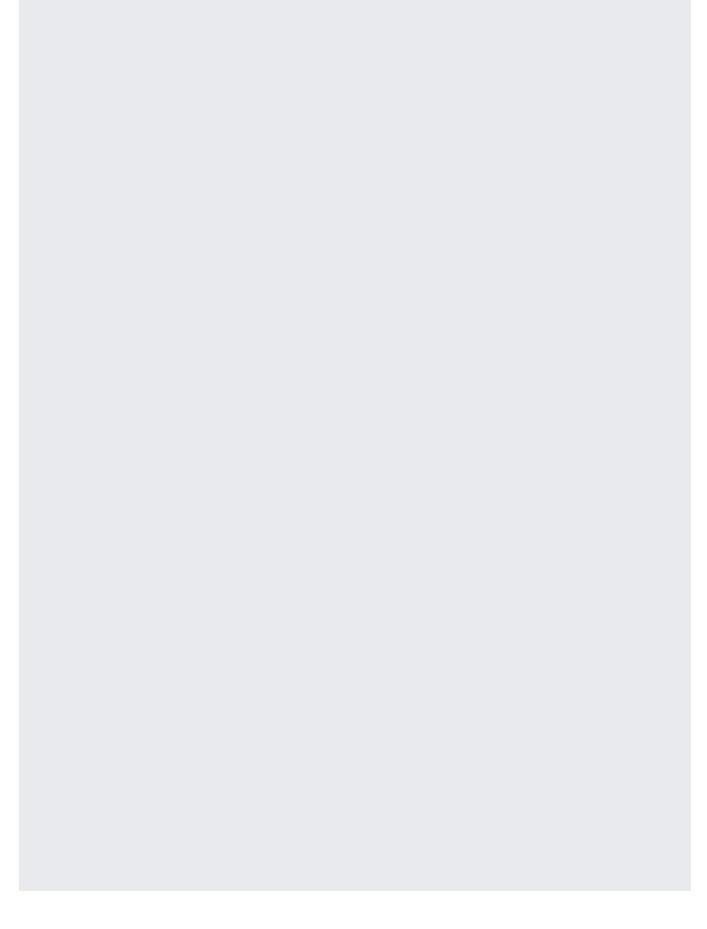


The following sample shows how to create STRUCT objects using the Cloud Spanner client							
libraries.							

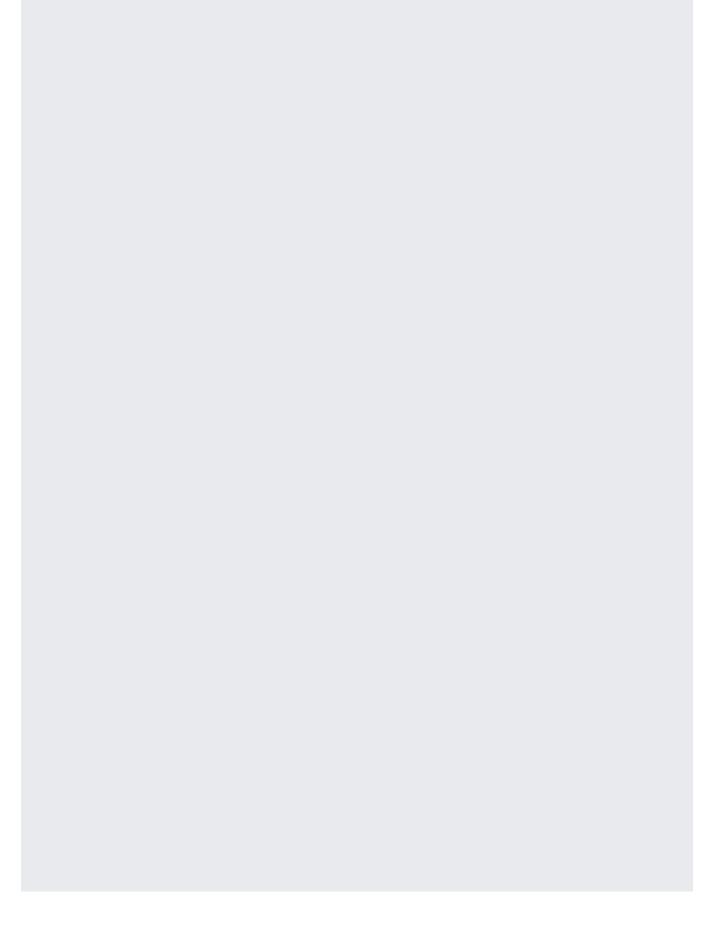


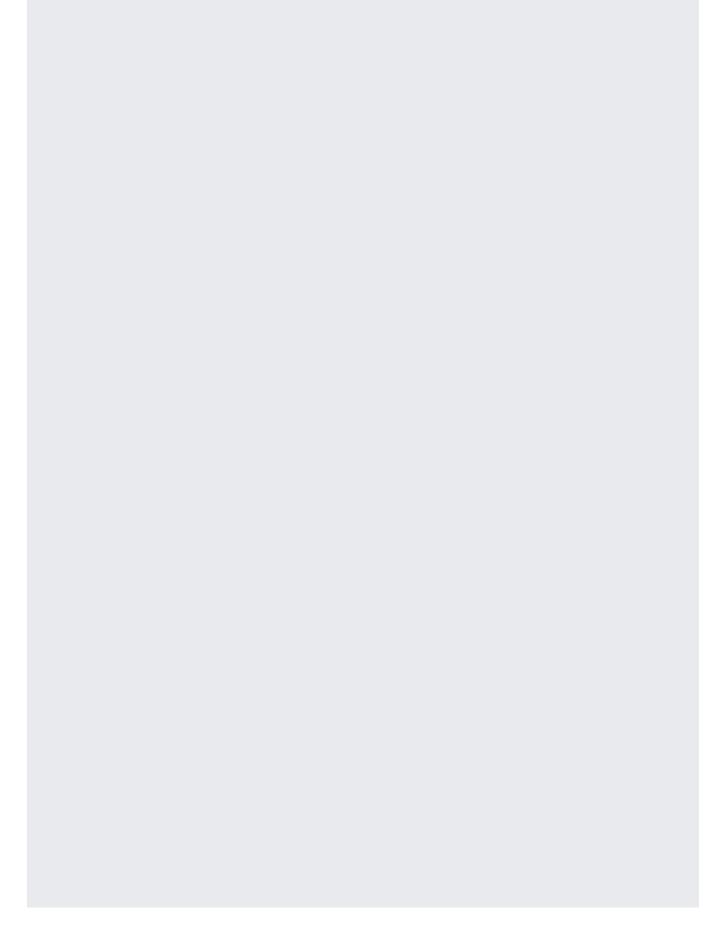
You can also use the client libraries to create an array of STRUCT objects, as seen in the following sample:

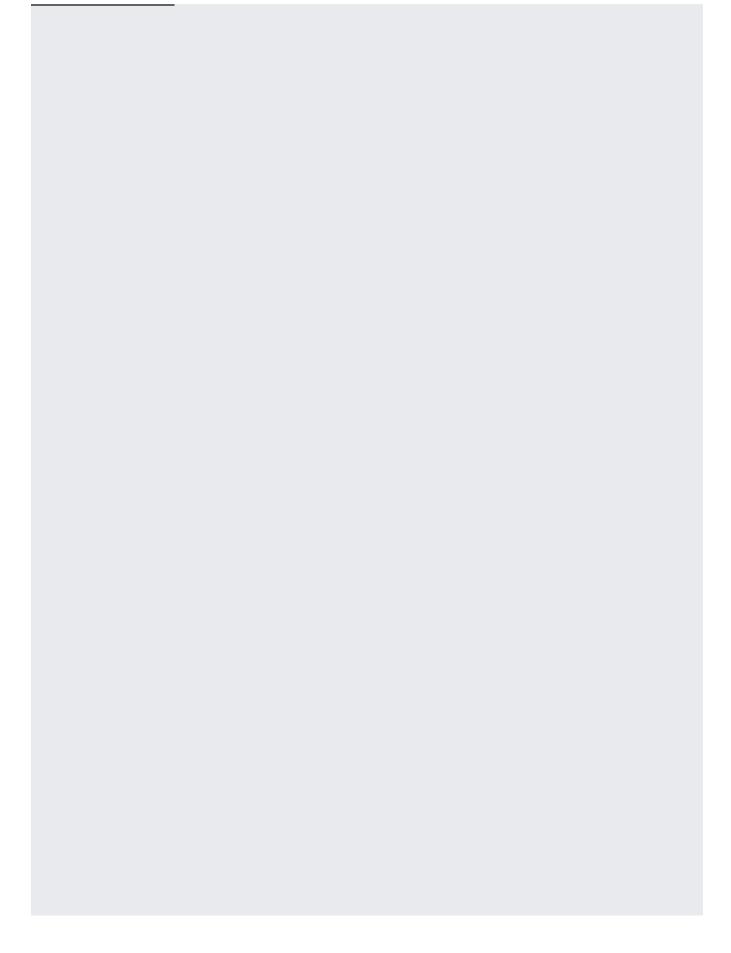


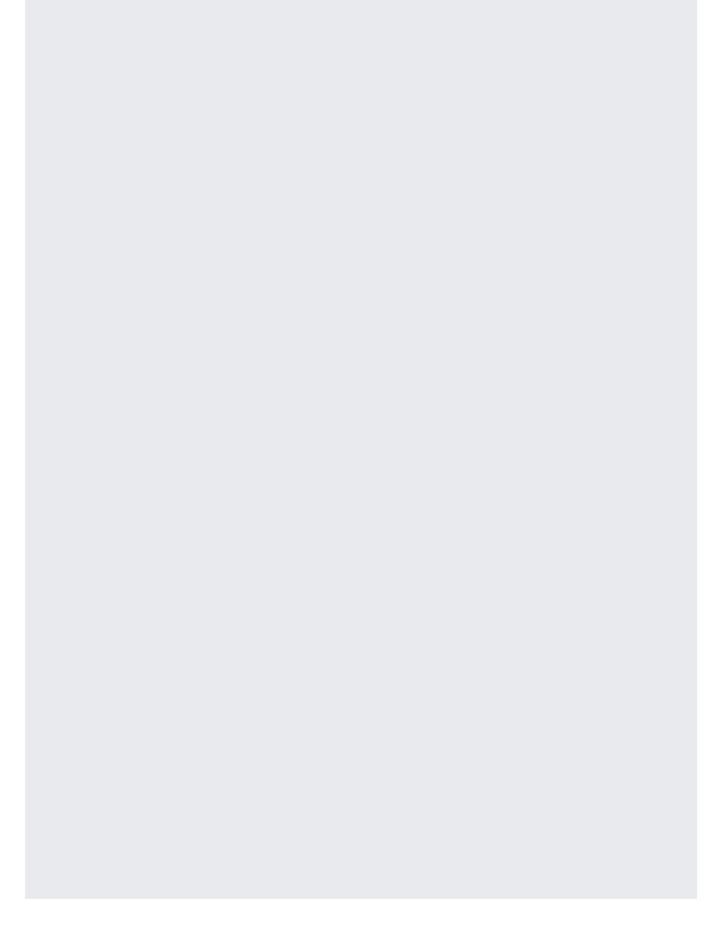


A Cloud Spanner SQL query can return an array of STRUCT objects as a column for certain queries. For more information, see Using STRUCTS with SELECT (/spanner/docs/query-syntax#using-structs-with-select).
You can use STRUCT objects as bound parameters in a SQL query. For more information about parameters, see Query parameters (/spanner/docs/lexical#query-parameters).
The following sample shows how to bind values in a STRUCT object to parameters in a SQL query statement, execute the query, and output the results.

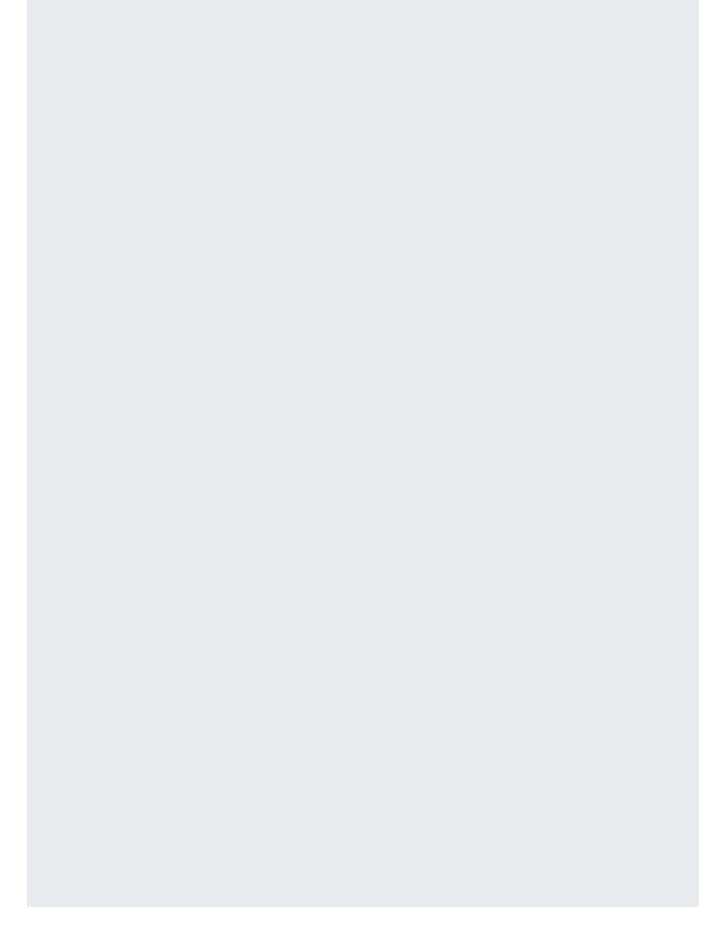


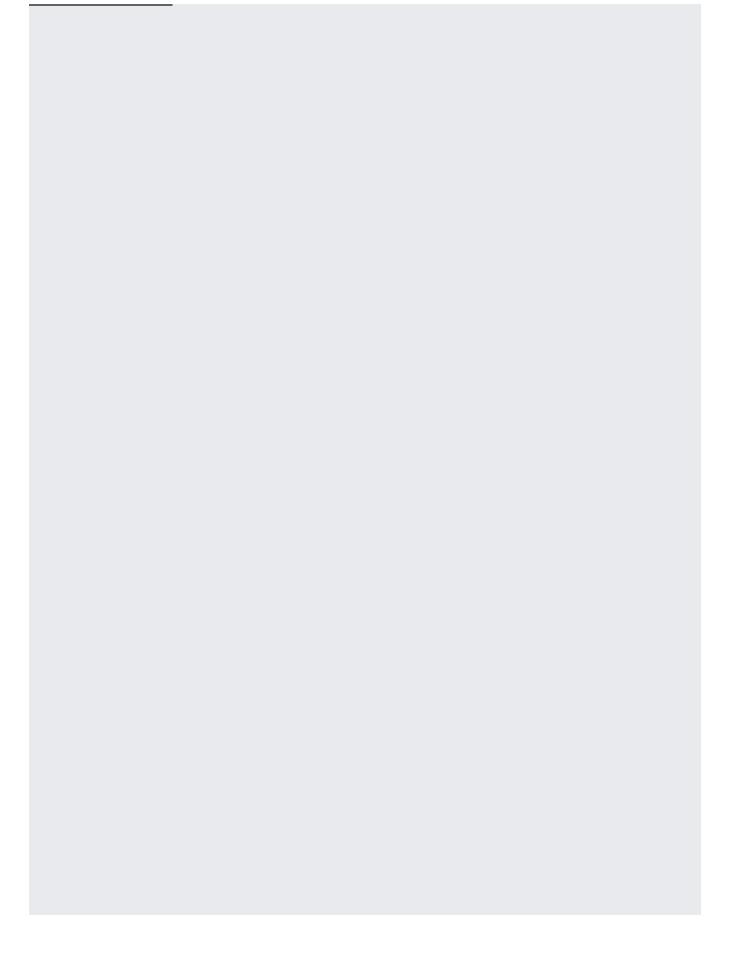


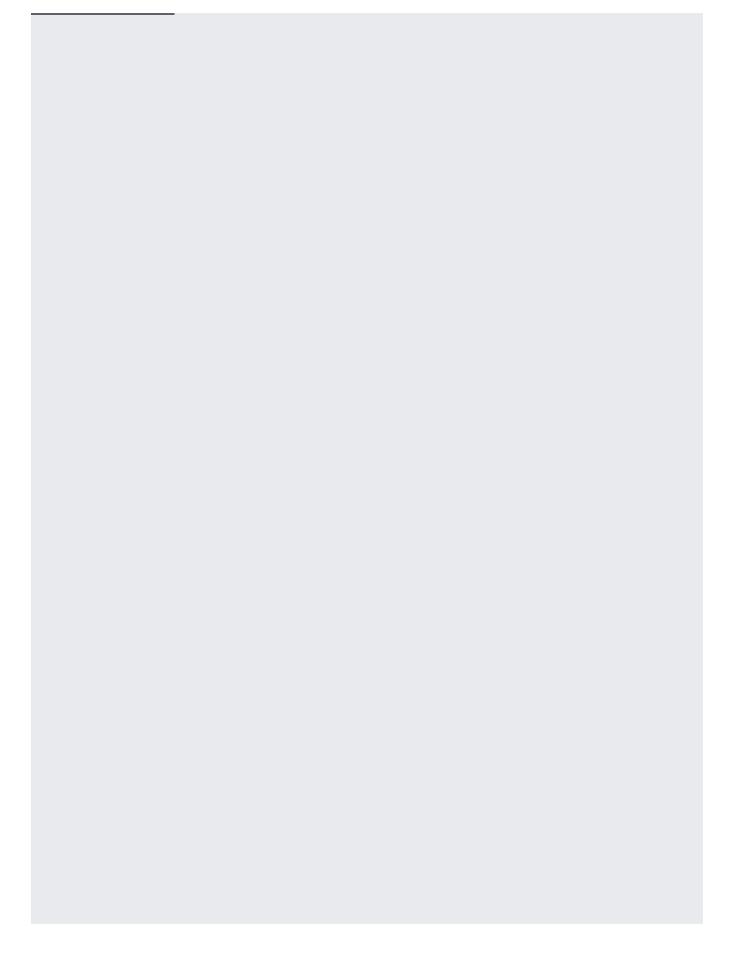


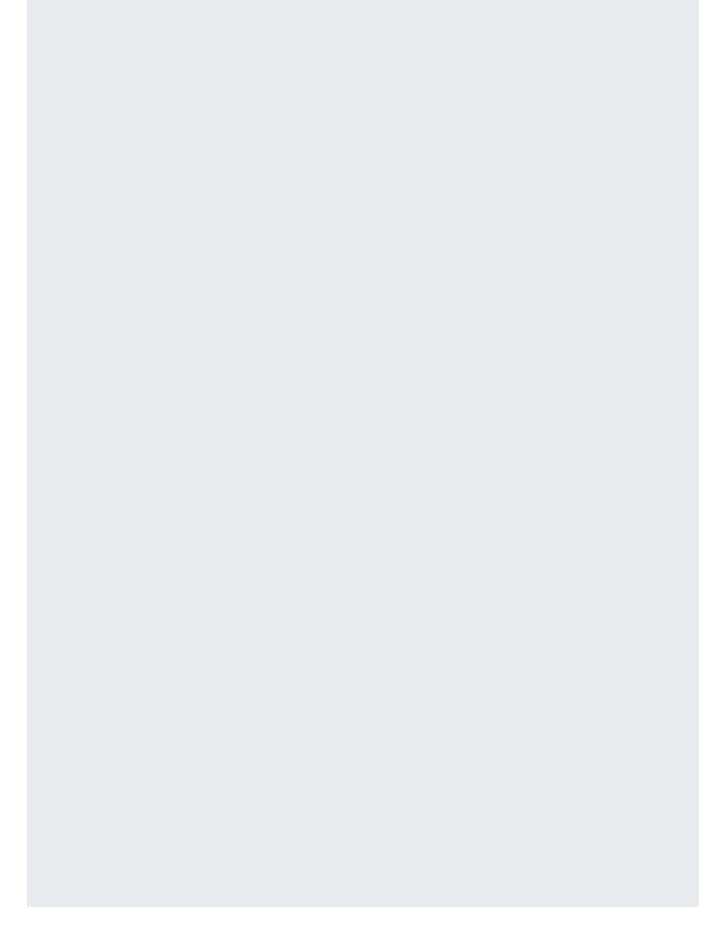


The following comple shows how to execute a guery that upon an error of CTRUCT chicate. Her
The following sample shows how to execute a query that uses an array of STRUCT objects. Use
the $\underline{\text{UNNEST}}$ (/spanner/docs/query-execution-operators#array-unnest) operator to flatten an array of
STRUCT objects into rows:

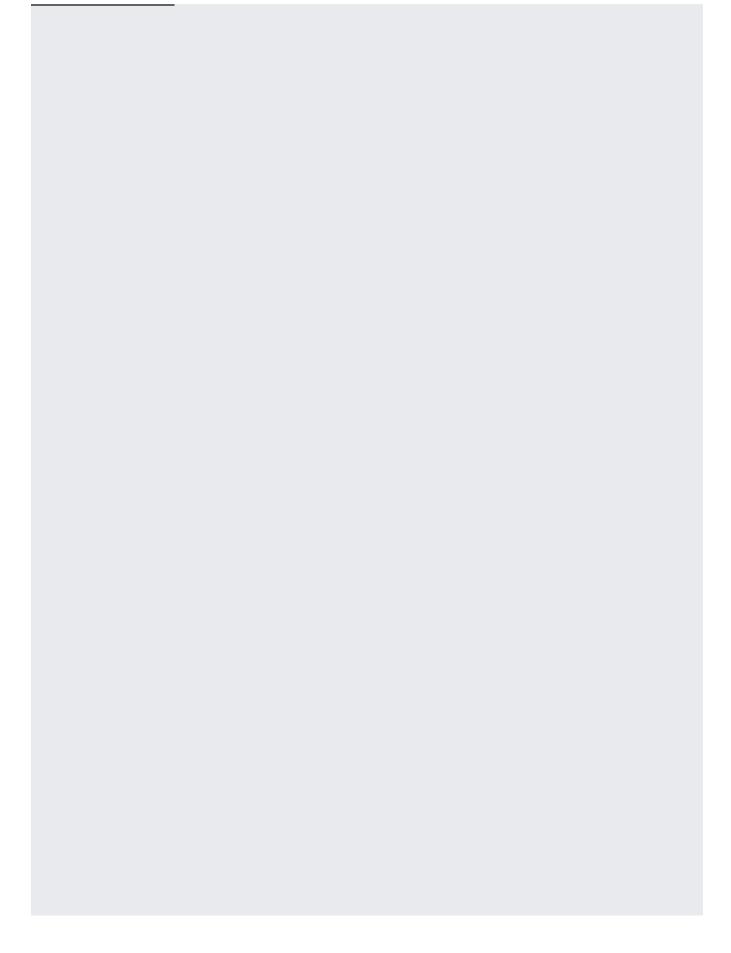


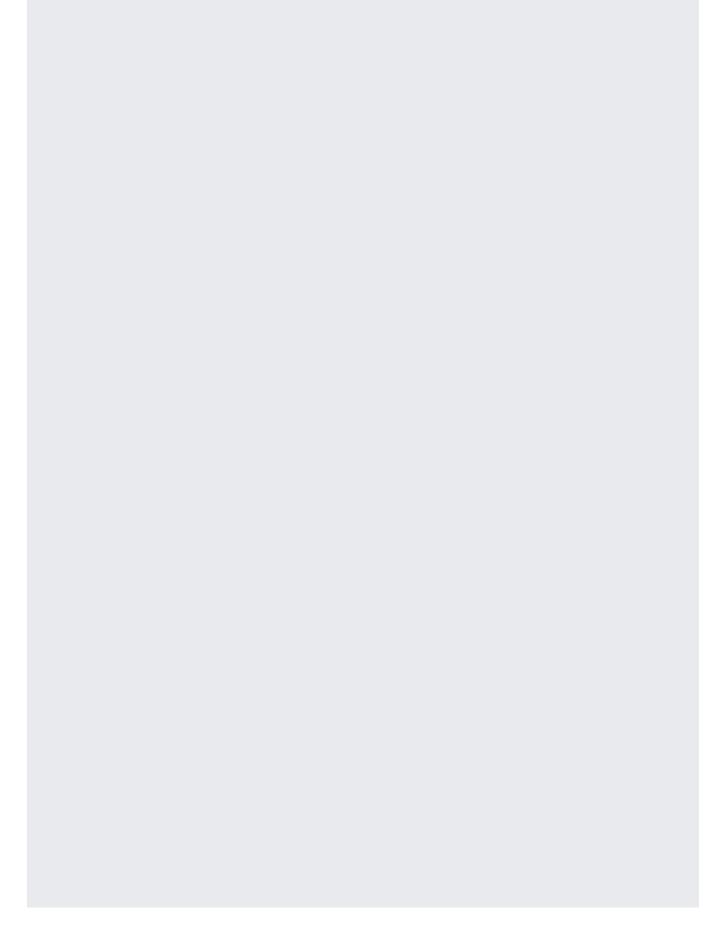


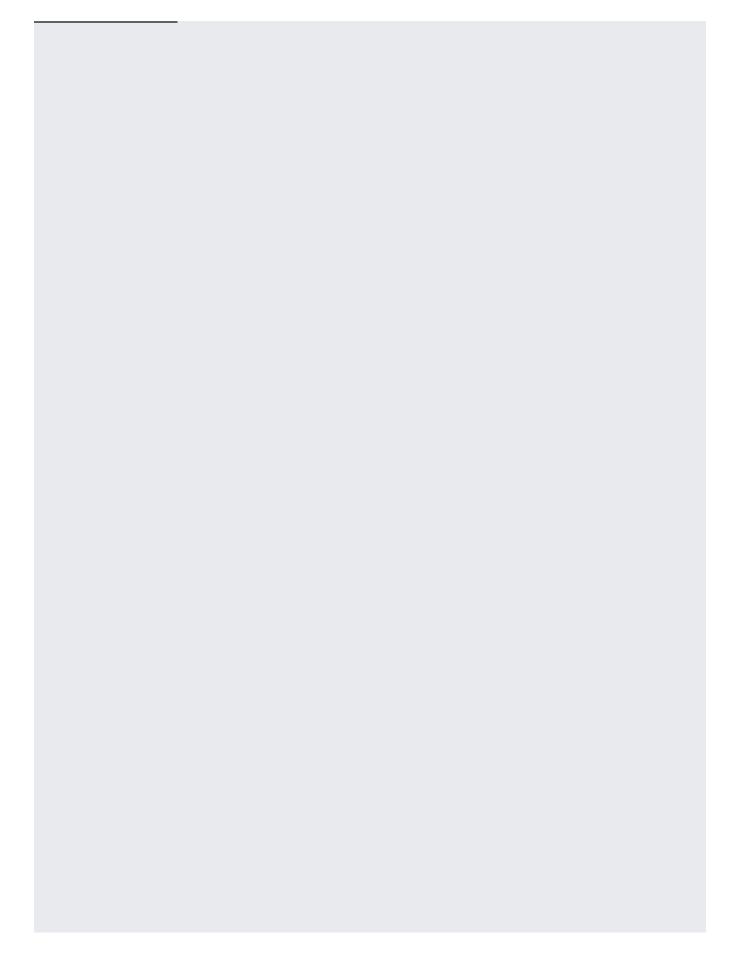


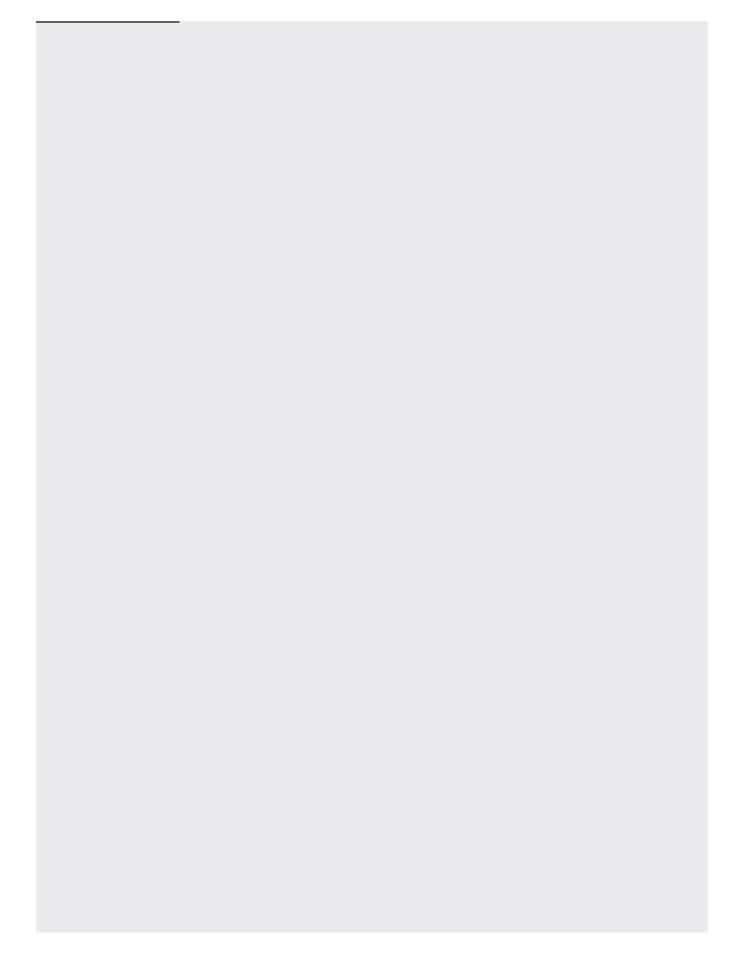


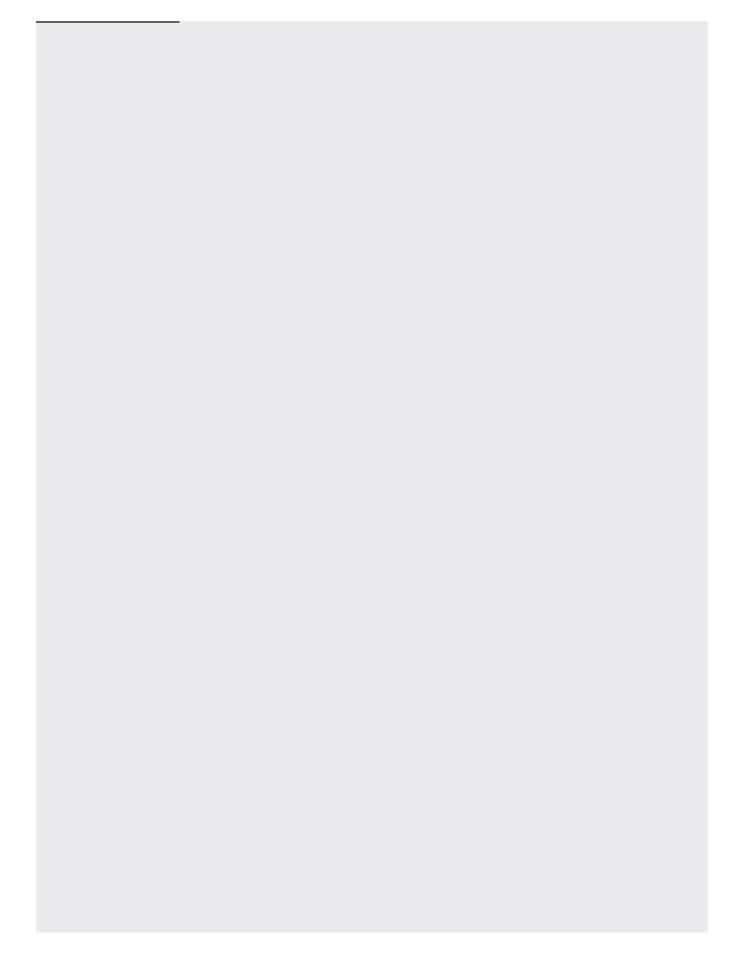
The following code example uses a STRUCT with bound parameters and Data Manipulation Language (DML) to update a single value in rows that match the WHERE clause condition. For rows where the FirstName is Timothy and the LastName is Campbell, the LastName is updated to Grant.	

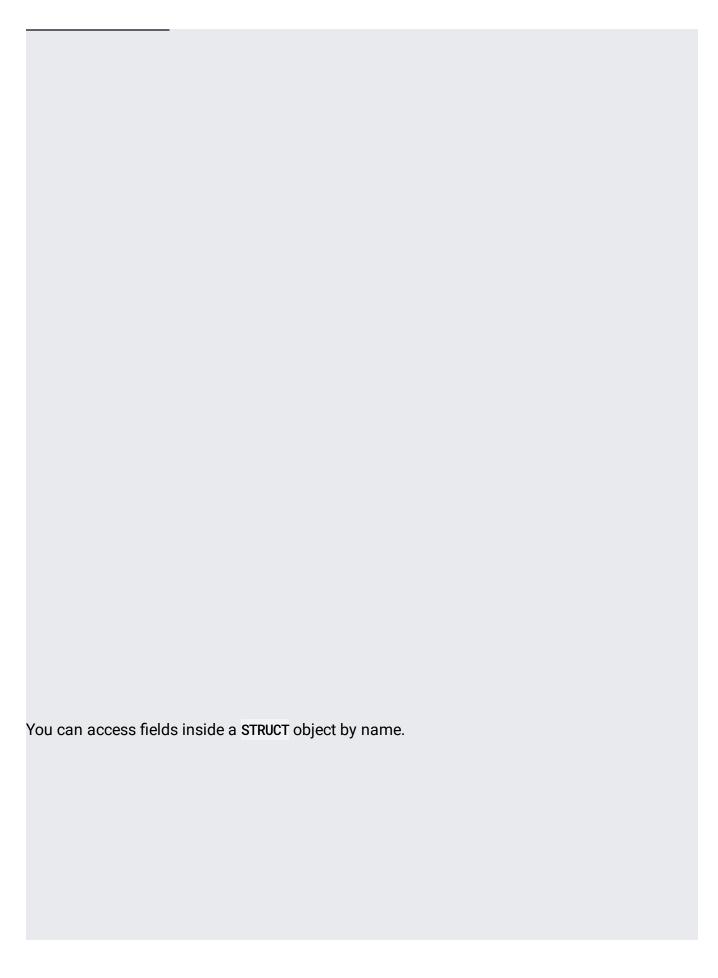


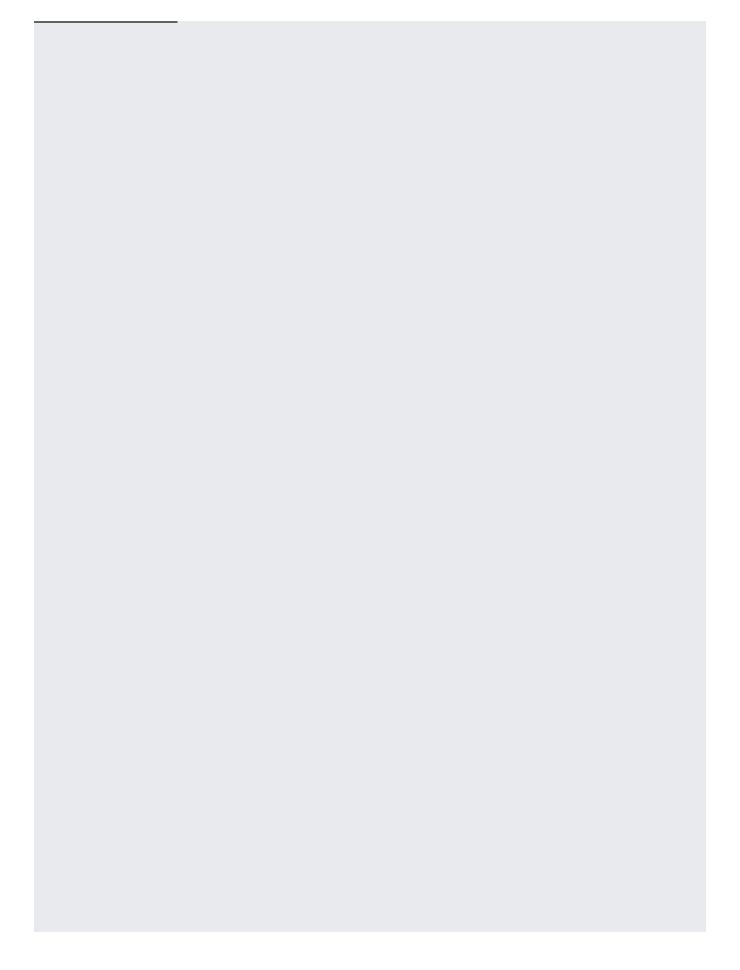


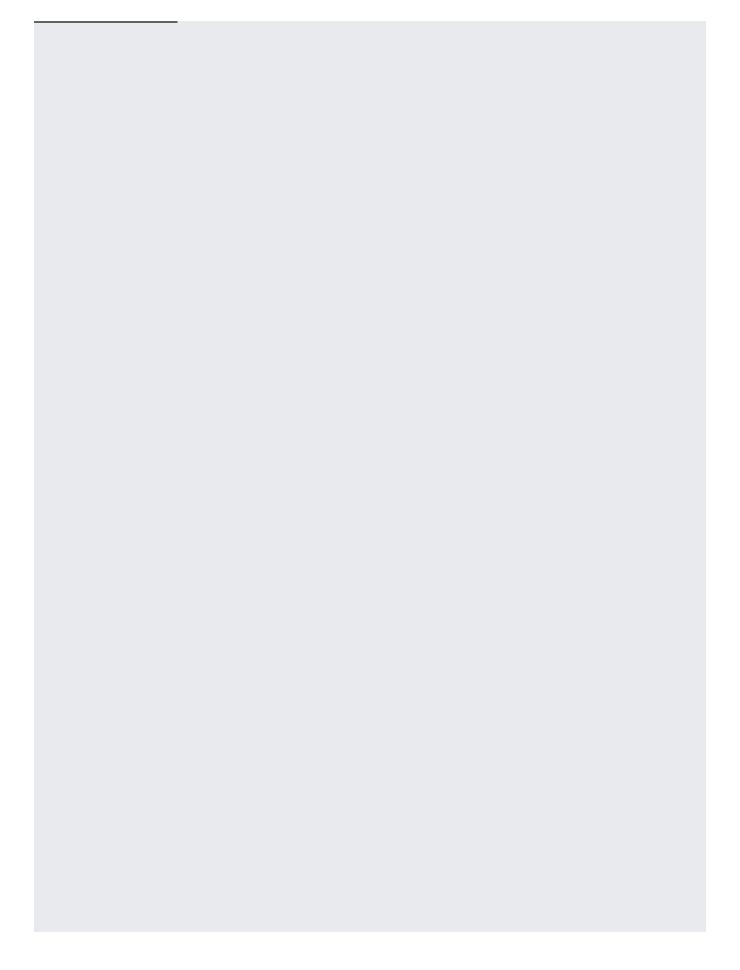


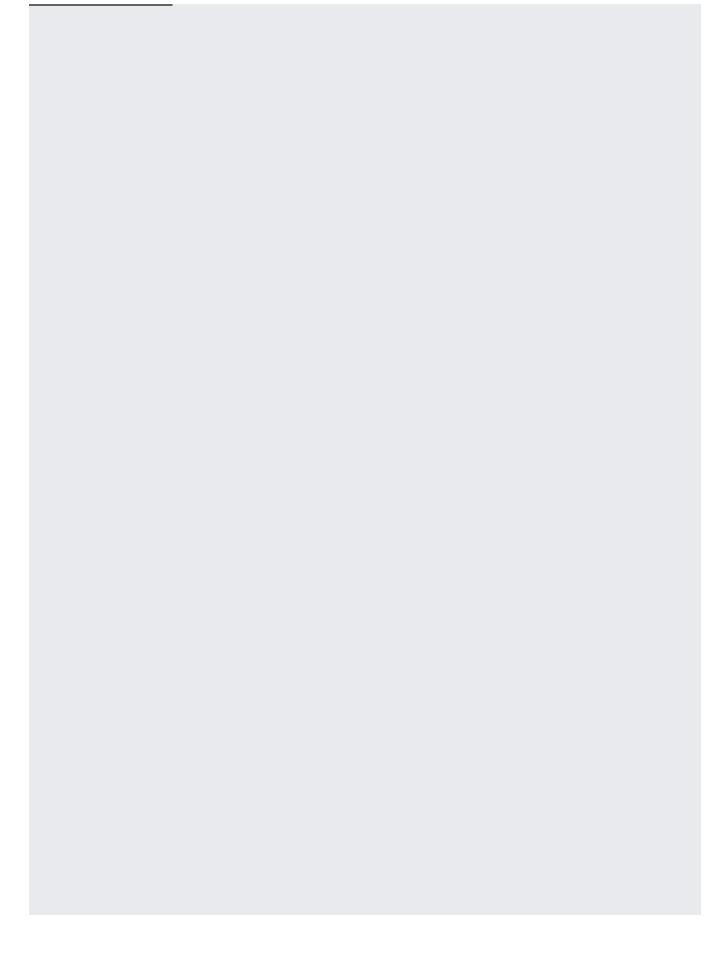


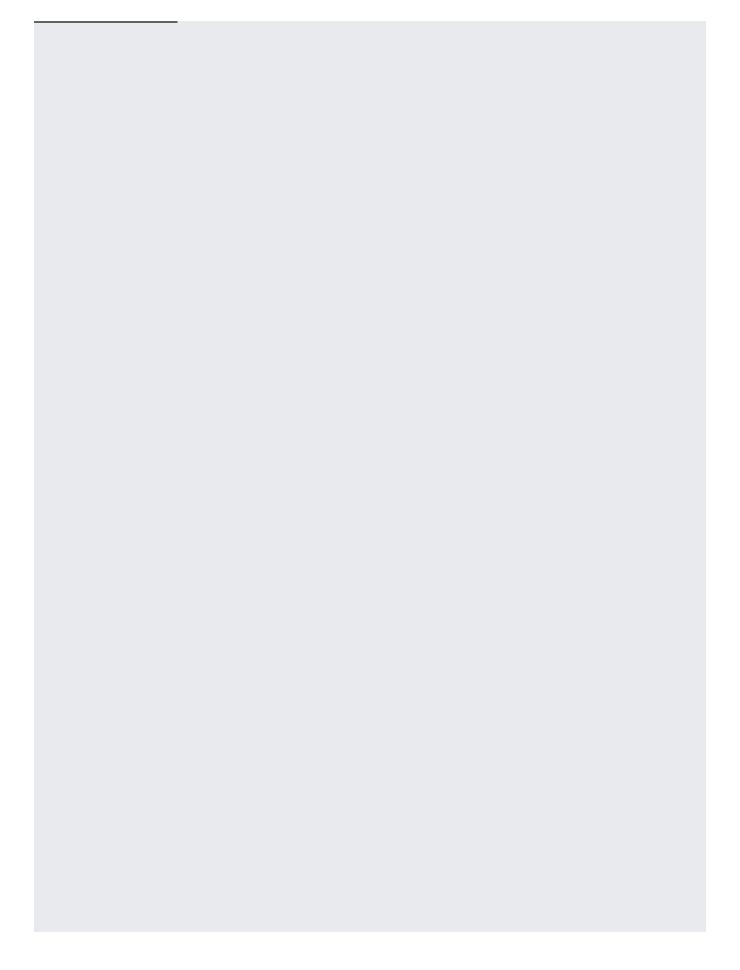


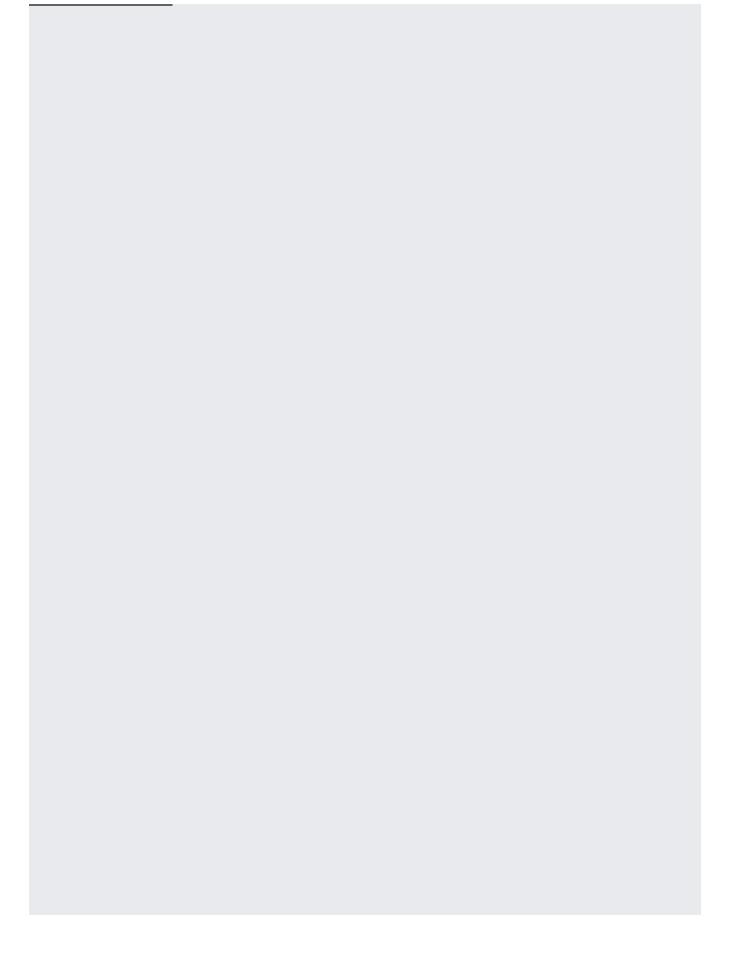


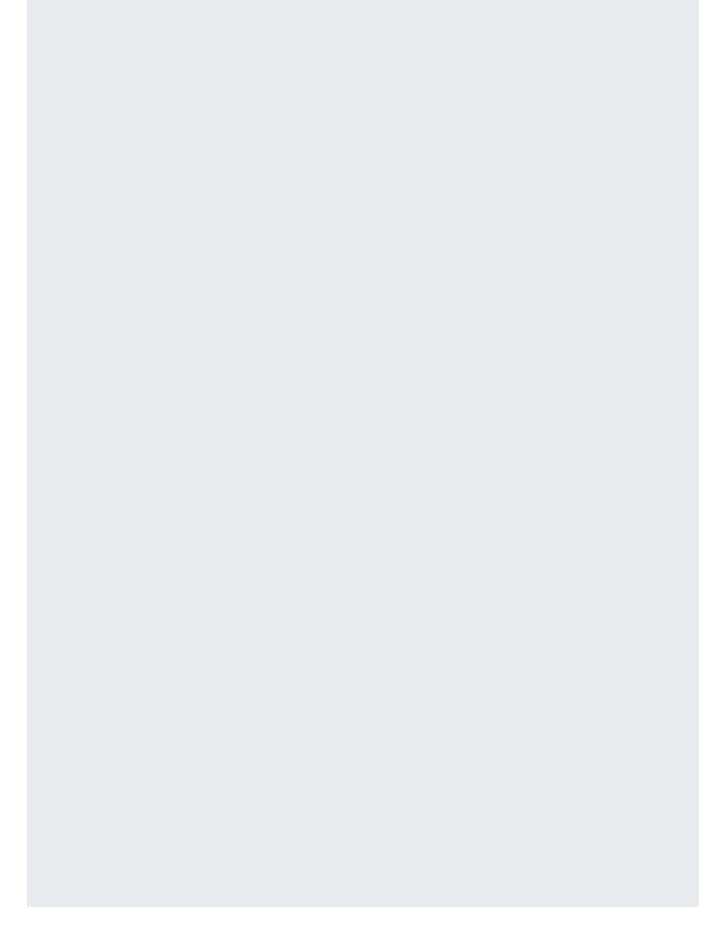


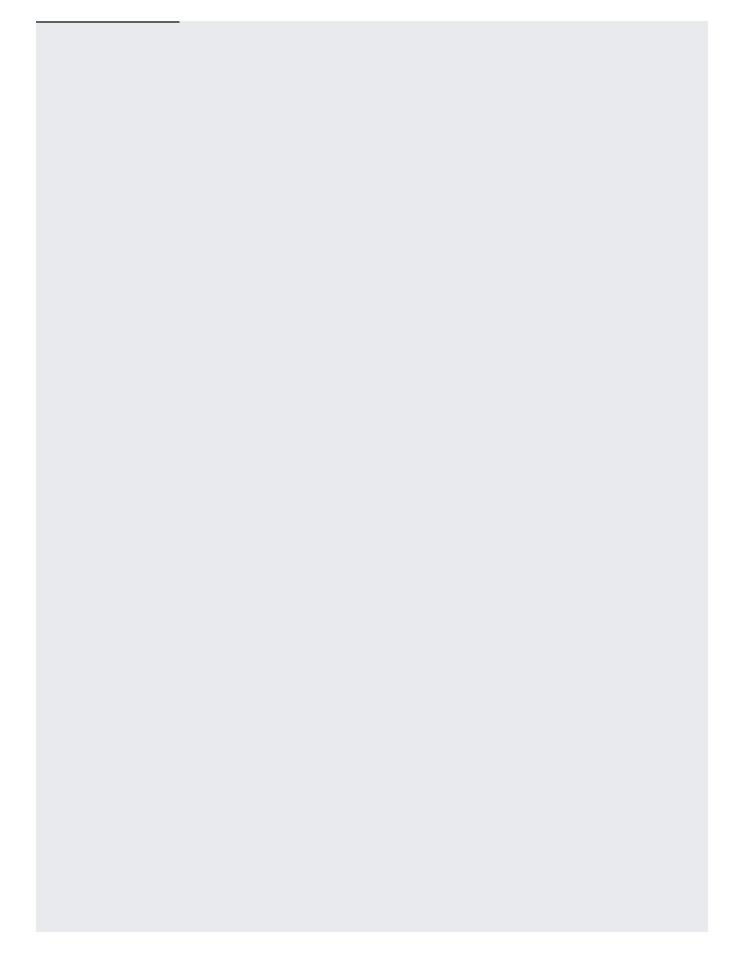


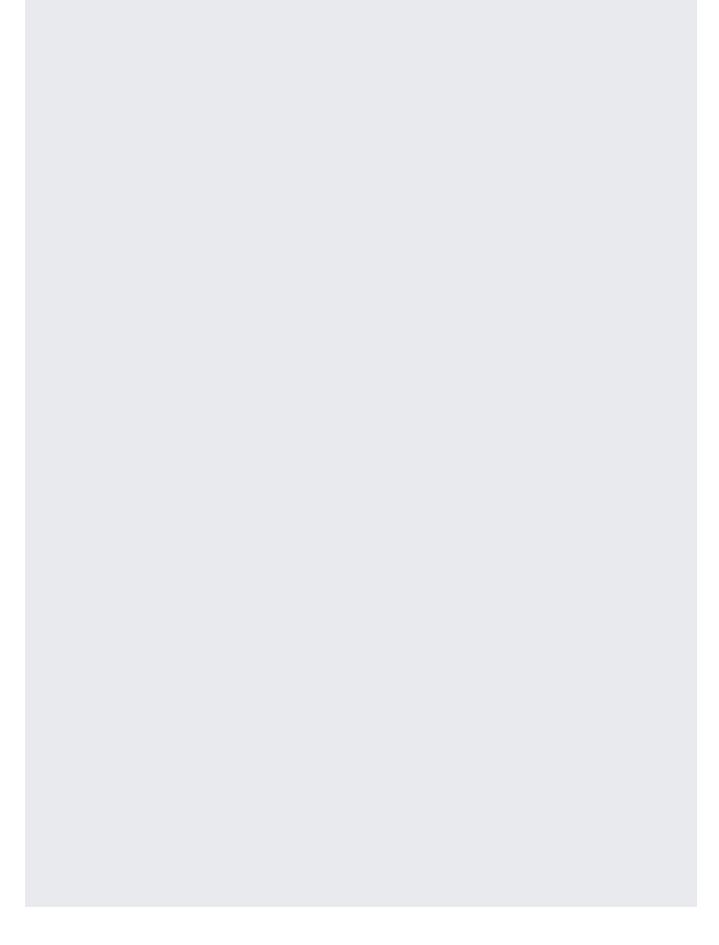


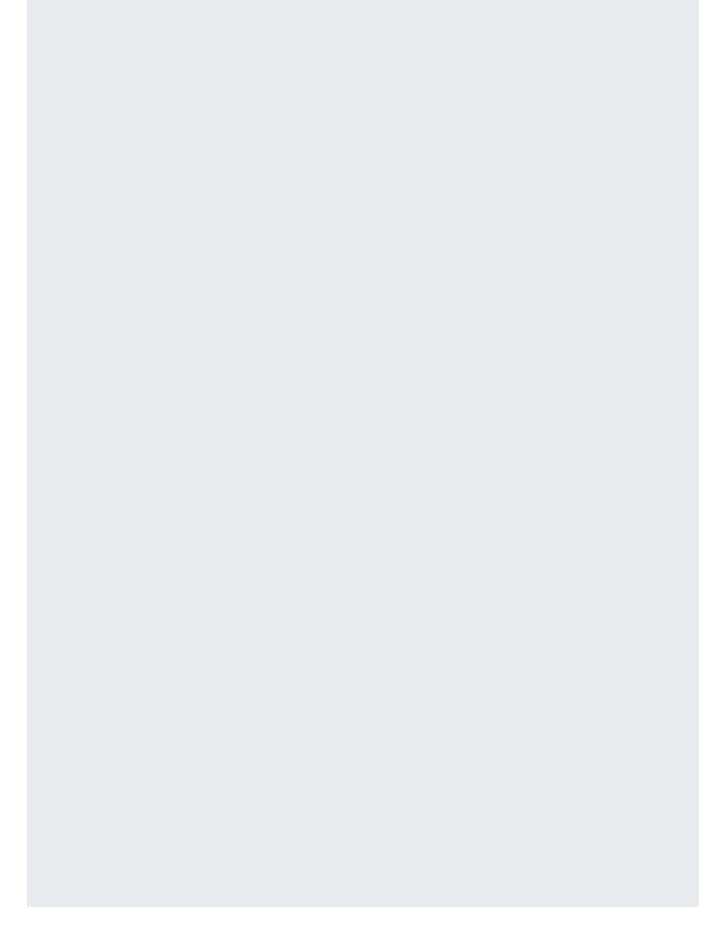


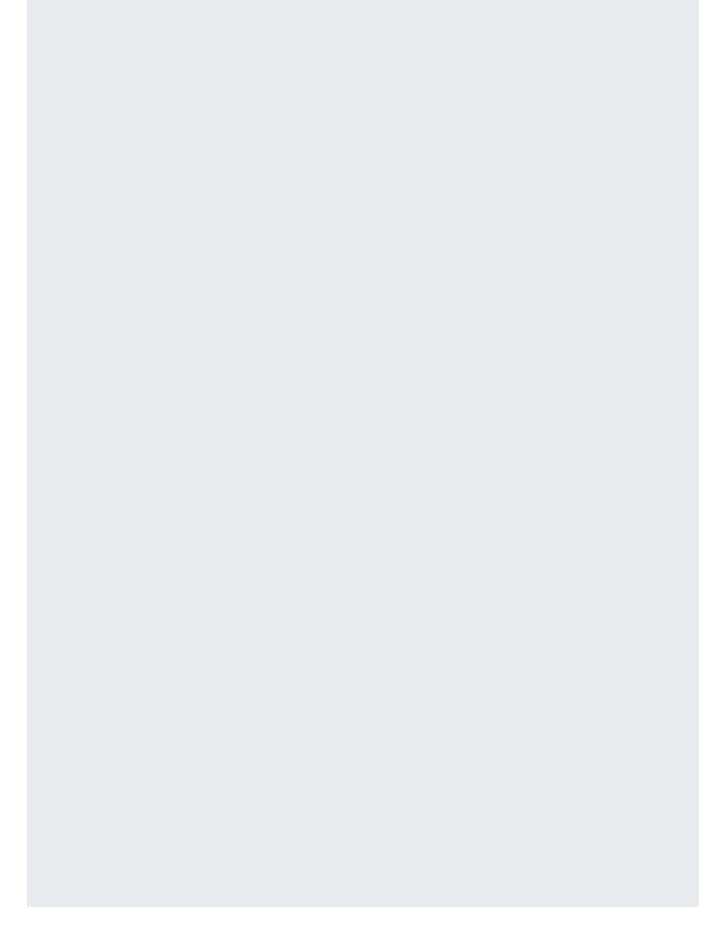


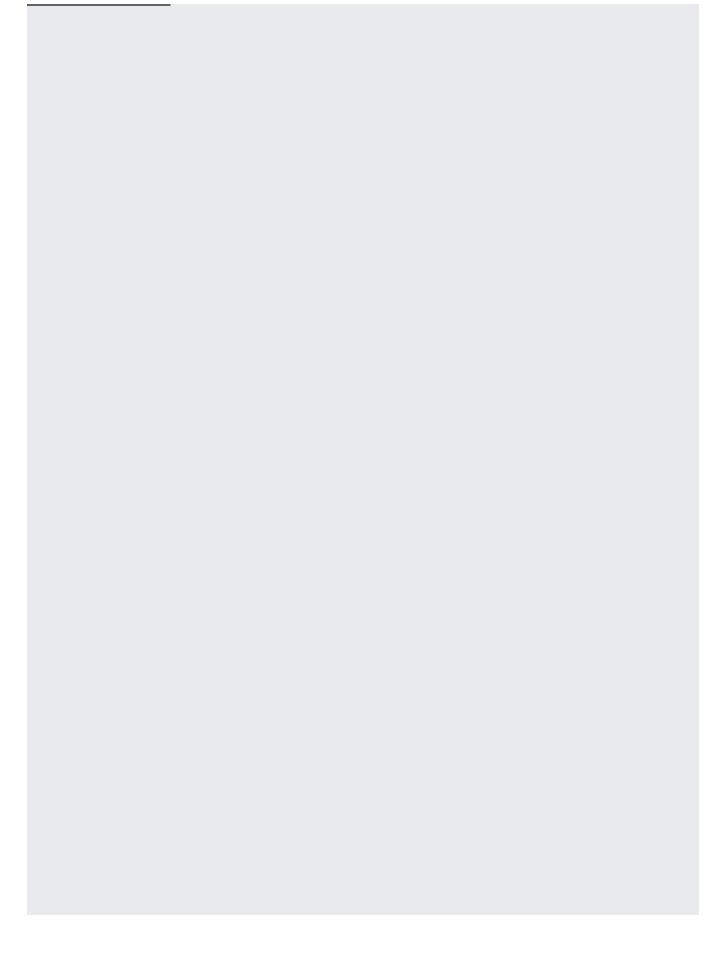


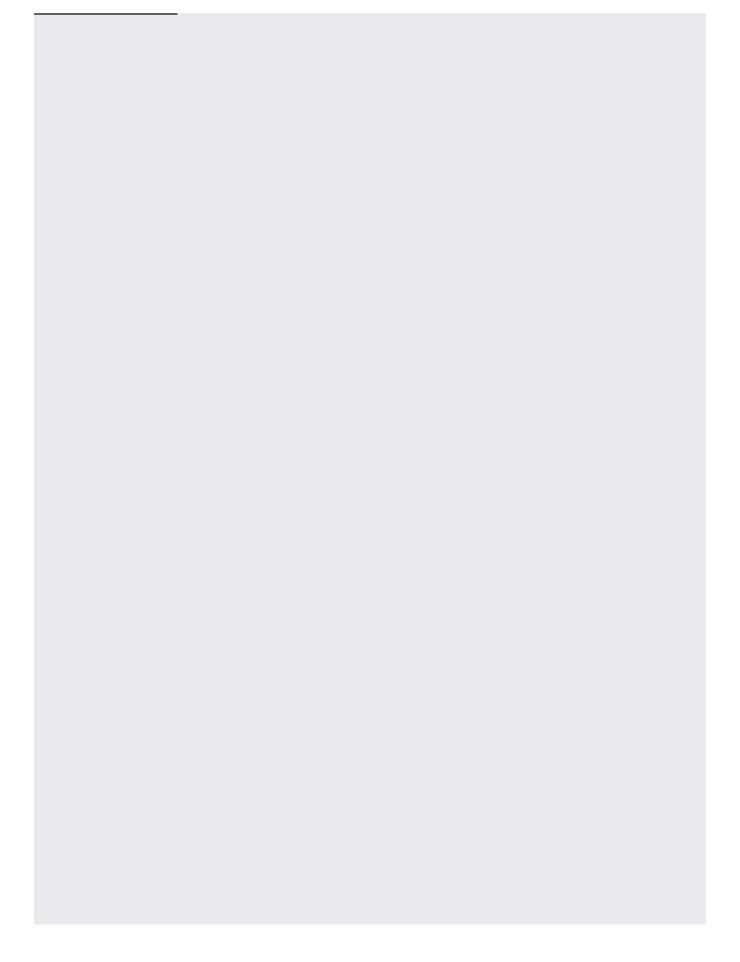


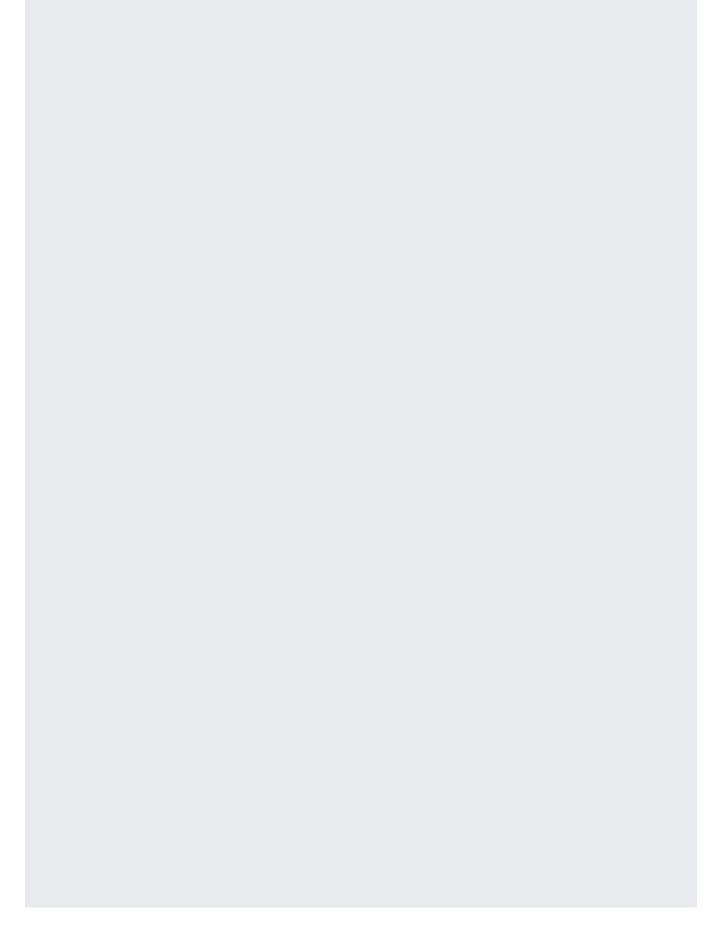


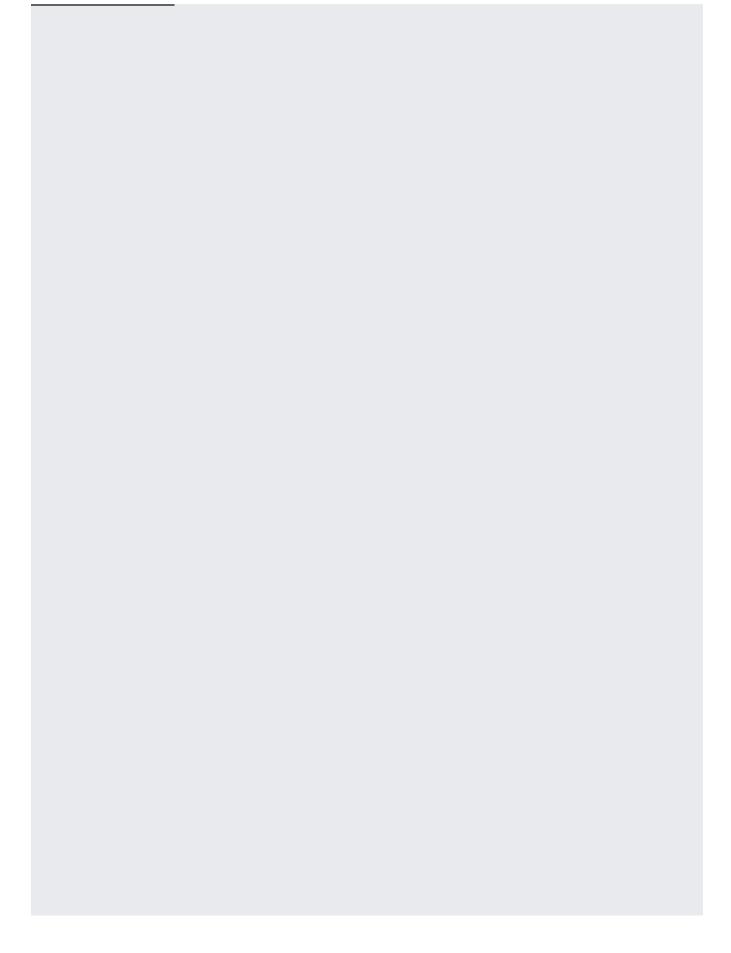


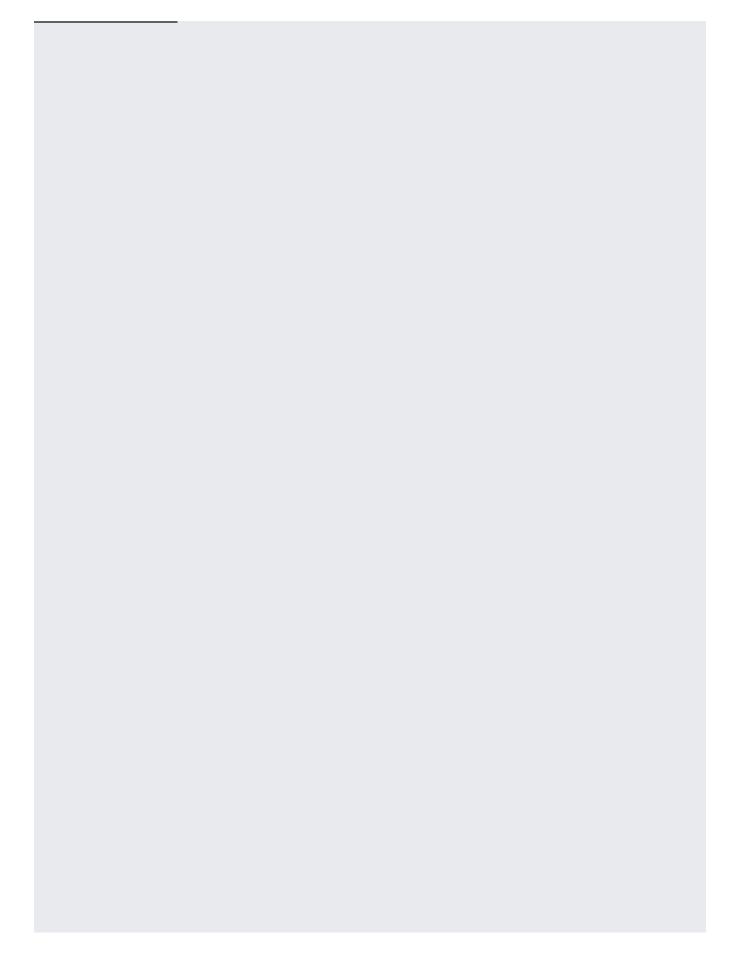


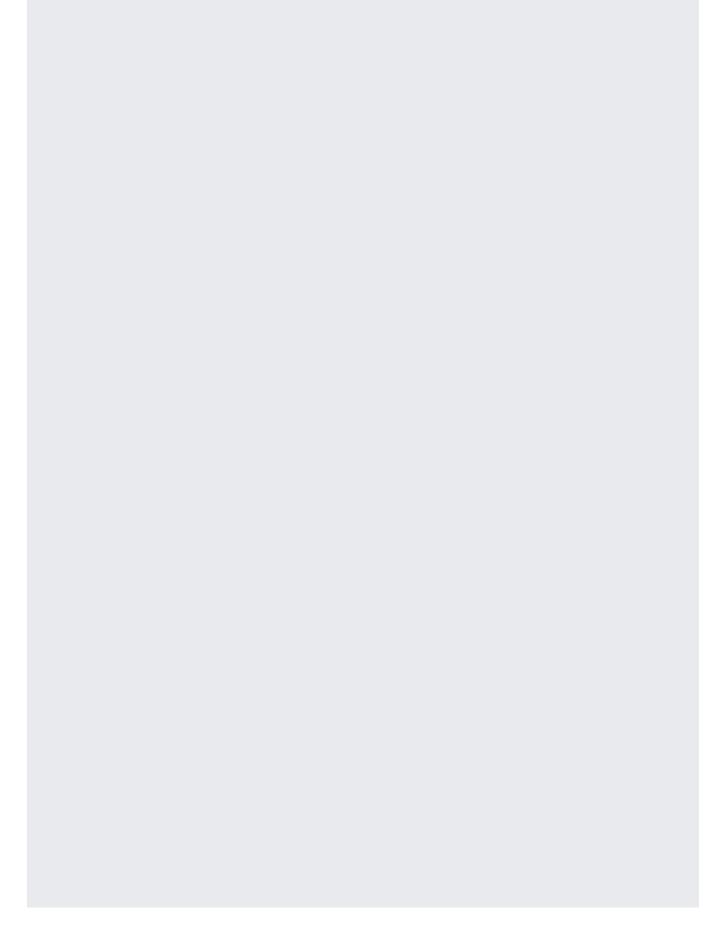


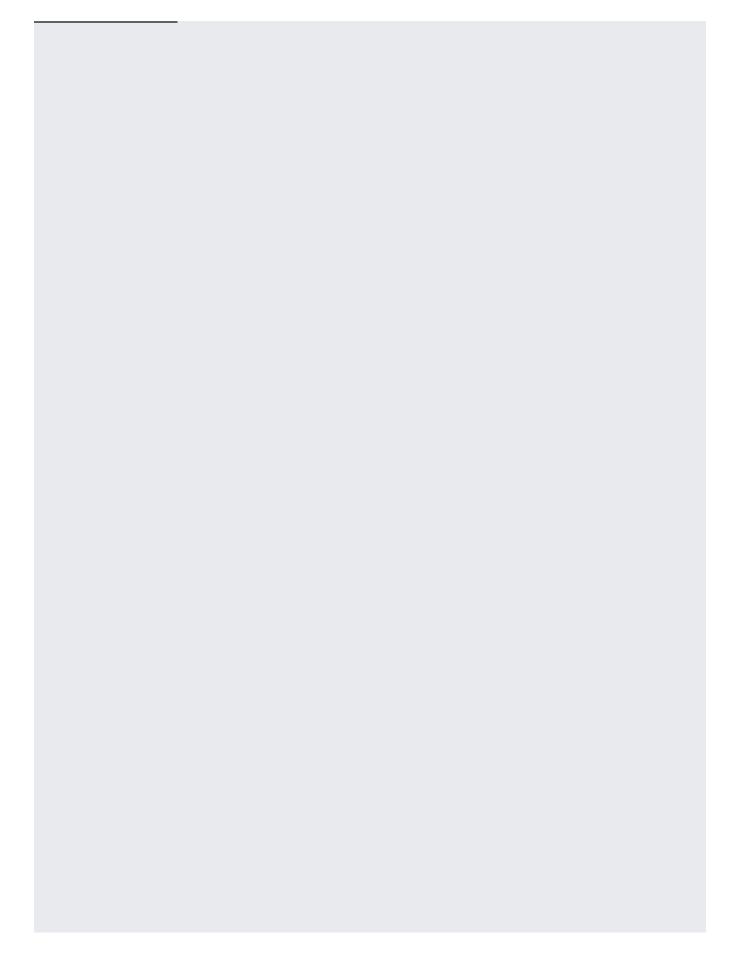


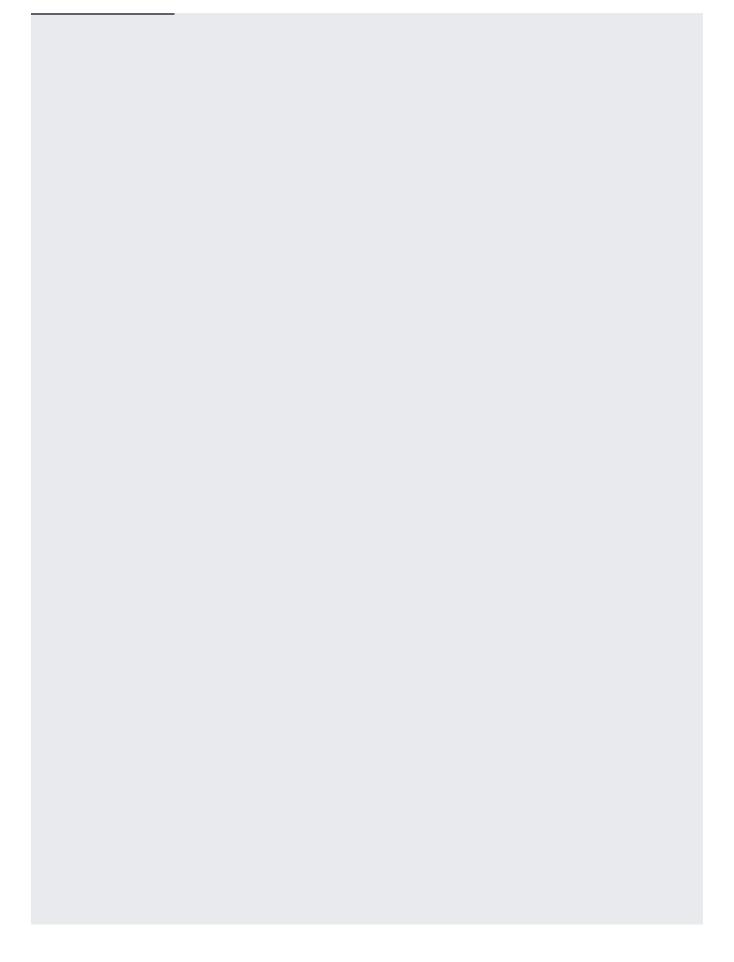


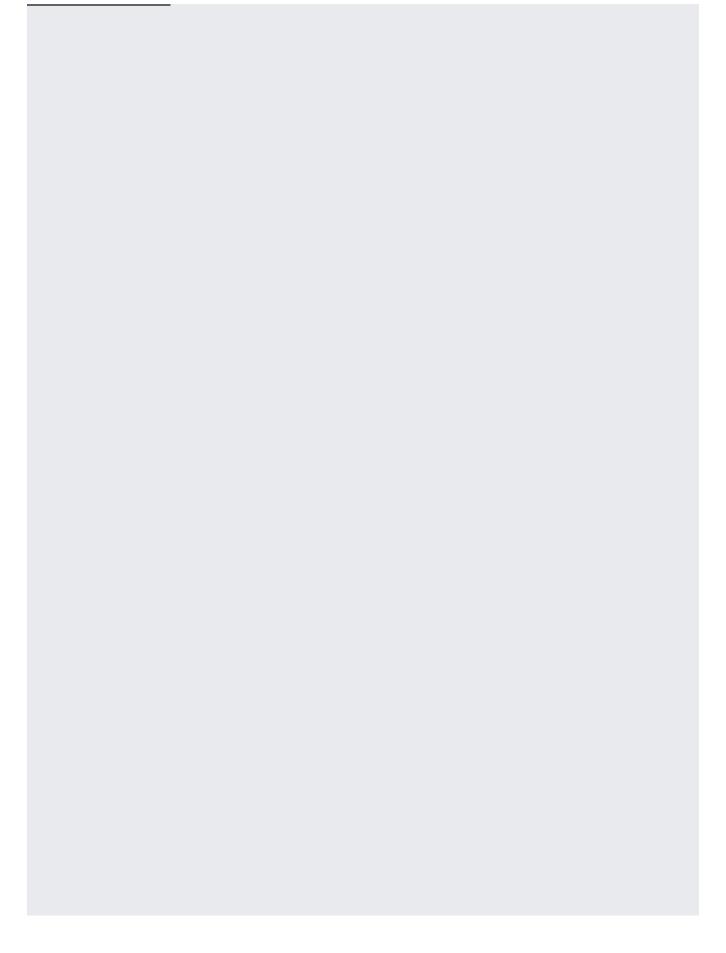


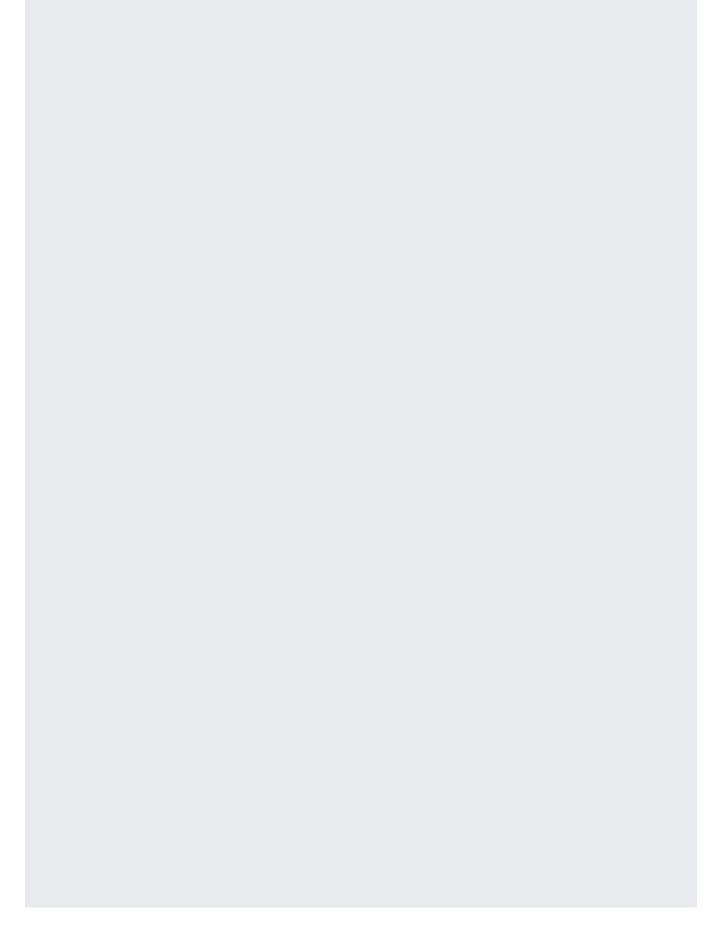


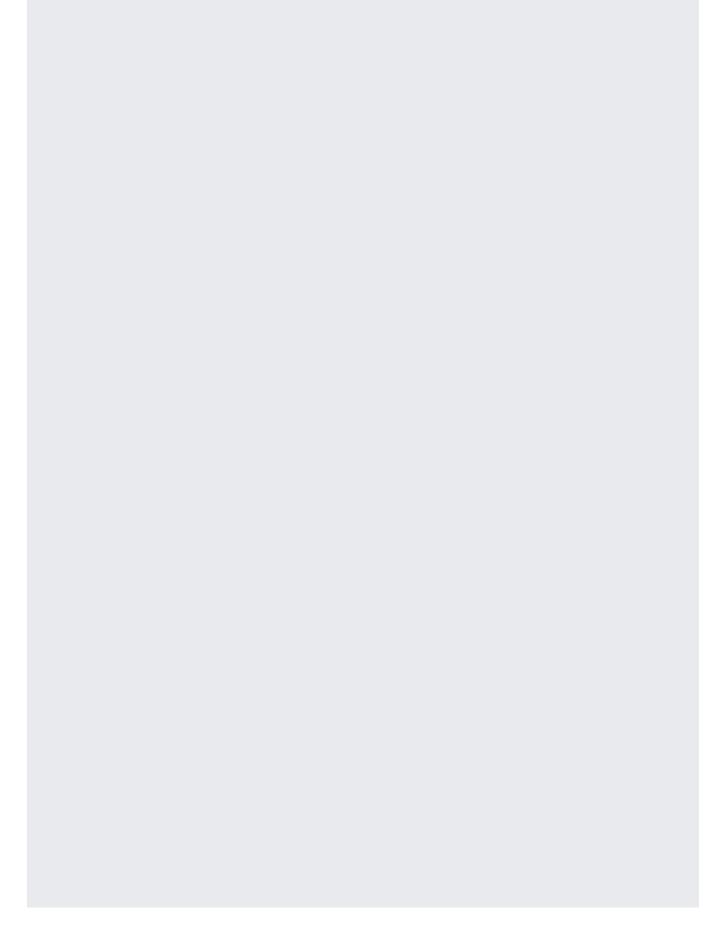


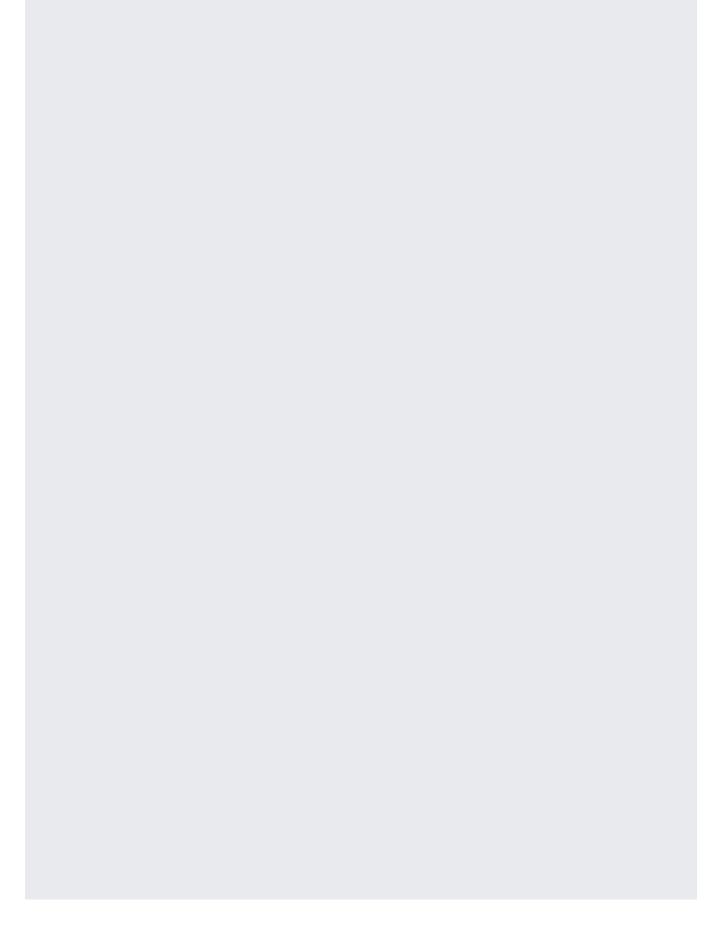


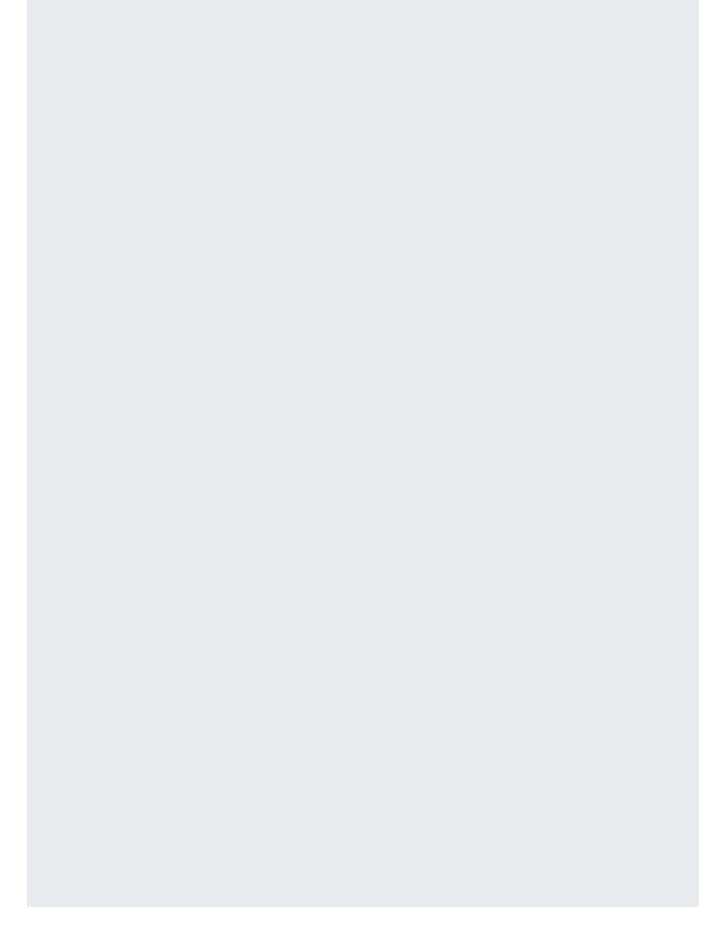


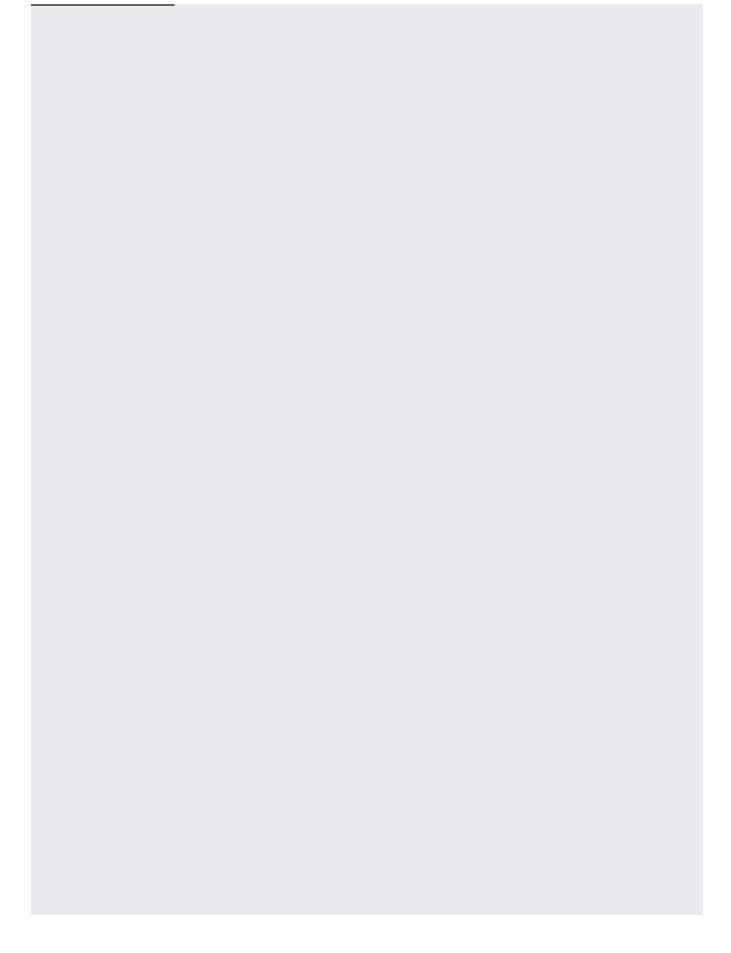












You can even have fields of STRUCT or ARRAY <struct> type inside STRUCT values and access them similarly:</struct>
them similarly.

