

# SOLUTION SPOTLIGHT

# DATA COMBINATIONS

Testing data combinations is a vital part of the debugging process when building new software, platforms, and integrations. However, creating appropriate data combinations from production data is fraught with challenges. Often, DevOps teams test as much as they can, then hope for the best. But when financial systems or patient health is on the line, such testing is inadequate. All routes must be explored; all combinations tested to unearth potential bugs.

The key to thorough testing is having the right volume, variety, and formats to test every possible combination adequately and thoroughly. GenRocket Synthetic Test Data offers an excellent alternative to limited testing or long nights spent manually creating test data.

* id	product_category	customer_type	sector	customer_affinity	channel	product	payment	timing	funding_amount	downstream
1	7201 Savings	CT101	SCT101	PC - Potential	CHN1	SV1001	INT - International	Before 5PM ET	GT 3000	Welcome PKG
2	7202 Savings	CT101	SCT101	PC - Potential	CHN1	SV1001	INT - International	Before 5PM ET	GT 3000	Standard PKG
3	7203 Savings	CT101	SCT101	PC - Potential	CHN1	SV1001	INT - International	Before 5PM ET	GT 3000	Other
4	7204 Savings	CT101	SCT101	PC - Potential	CHN1	SV1001	INT - International	Before 5PM ET	LT 3000	Welcome PKG
5	7205 Savings	CT101	SCT101	PC - Potential	CHN1	SV1001	INT - International	Before 5PM ET	LT 3000	Standard PKG
6	7206 Savings	CT101	SCT101	PC - Potential	CHN1	SV1001	INT - International	Before 5PM ET	LT 3000	Other
7	7207 Savings	CT101	SCT101	PC - Potential	CHN1	SV1001	INT - International	After 5PM ET	GT 3000	Welcome PKG
8										
9	5761 Checking	CT101	SCT101	NC - New	CHN1	CK1001	INT - International	Before 5PM ET	GT 3000	Welcome PKG
10	5762 Checking	CT101	SCT101	NC - New	CHN1	CK1001	INT - International	Before 5PM ET	GT 3000	Standard PKG
11	5763 Checking	CT101	SCT101	NC - New	CHN1	CK1001	INT - International	Before 5PM ET	GT 3000	Other
12	5764 Checking	CT101	SCT101	NC - New	CHN1	CK1001	INT - International	Before 5PM ET	LT 3000	Welcome PKG
13	5765 Checking	CT101	SCT101	NC - New	CHN1	CK1001	INT - International	Before 5PM ET	LT 3000	Standard PKG
14	5766 Checking	CT101	SCT101	NC - New	CHN1	CK1001	INT - International	Before 5PM ET	LT 3000	Other
15	5767 Checking	CT101	SCT101	NC - New	CHN1	CK1001	INT - International	After 5PM ET	GT 3000	Welcome PKG
16										
17										
18										
19	6625 Money Market	CT101	SCT101	PC - Potential	CHN1	MM1001	INT - International	Before 5PM ET	GT 3000	Welcome PKG
20	6626 Money Market	CT101	SCT101	PC - Potential	CHN1	MM1001	INT - International	Before 5PM ET	GT 3000	Standard PKG
21	6627 Money Market	CT101	SCT101	PC - Potential	CHN1	MM1001	INT - International	Before 5PM ET	GT 3000	Other
22	6628 Money Market	CT101	SCT101	PC - Potential	CHN1	MM1001	INT - International	Before 5PM ET	LT 3000	Welcome PKG
23	6629 Money Market	CT101	SCT101	PC - Potential	CHN1	MM1001	INT - International	Before 5PM ET	LT 3000	Standard PKG
24	6630 Money Market	CT101	SCT101	PC - Potential	CHN1	MM1001	INT - International	Before 5PM ET	LT 3000	Other
25	6631 Money Market	CT101	SCT101	PC - Potential	CHN1	MM1001	INT - International	After 5PM ET	GT 3000	Welcome PKG
26										
27										
28										
29	1 CD	CT101	SCT101	PC - Potential	CHN1	CD1001	INT - International	Before 5PM ET	GT 3000	Welcome PKG
30	2 CD	CT101	SCT101	PC - Potential	CHN1	CD1001	INT - International	Before 5PM ET	GT 3000	Welcome PKG
31	3 CD	CT101	SCT101	PC - Potential	CHN1	CD1001	INT - International	Before 5PM ET	GT 3000	Welcome PKG
32	4 CD	CT101	SCT101	PC - Potential	CHN1	CD1001	INT - International	Before 5PM ET	GT 3000	Welcome PKG
33	5 CD	CT101	SCT101	PC - Potential	CHN1	CD1001	INT - International	Before 5PM ET	GT 3000	Welcome PKG
34	6 CD	CT101	SCT101	PC - Potential	CHN1	CD1001	INT - International	Before 5PM ET	GT 3000	Welcome PKG
35	7 CD	CT101	SCT101	PC - Potential	CHN1	CD1001	INT - International	Before 5PM ET	GT 3000	Welcome PKG
36										

Every potential combination can - and should - be tested. Synthetic test data makes this possible.

## Synthetic Self-Service Test Data Solution: Data Combinations

GenRocket's synthetic self-service test data solution produces the volume, variety and formats of test data needed for multiple complex data combinations used in testing.

- ✓ Create almost limitless test data combinations
- ✓ Save considerable time and effort producing the appropriate variety and format of test data combinations
- ✓ 100% secure - no personally identifiable information is ever used

We can produce the **data volume**, **data variety**, and **data format** that you need, in a fraction of the time it takes to mask production data or manually create it.

A great choice for industries with strict standards of privacy, compliance, and accuracy.



## Synthetic Data Delivers Quality at Speed

Data quality is essential to the testing process, but so is speed, and using many complex data value combinations within a rigorous testing framework takes time. When a global financial services company needed complex data combinations and permutations, they found themselves in an untenable position. Producing the desired combination of production data and manually created data values was a tedious process that slowed the cycle time for each test to 16 days. To shorten this timeframe, they turned to GenRocket synthetic test data. By using one of GenRocket's powerful data generators the company was able to increase regression testing coverage from 30% to 80% and provide a wider range of code coverage paths for their systems under test. At the same time, they reduced their testing cycle time from 16 days to 2 hours.

## Faster, Better Data Combinations

GenRocket's synthetic test data can provide your company with the volume, variety, and formats you need to perform almost limitless combinatorial testing. With adequate data combinations, you can test all possible permutations and debug systems, software, and applications rapidly.

Data combinations: a smart choice to test all possible scenarios without compromising project timelines or budgets.

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