The BIG mixed-up table puzzle

This is the multiplication table from 1 × 1 to 9 × 9.
The rows are in the wrong order and so are the columns.
Each letter stands for one of the digits 0, 1, 2, 3, 4, 5, 6, 7, 8, 9.

Can you crack the code?

×	X	R	S	T	Q	Z	V	W	Y
Z	R	TY	TU	Z	TR	X	Y	TX	TZ
W	ZR	SY	VS	W	YV	TX	ZT	XQ	XZ
Y	ZX	XR	VU	Y	SX	TZ	TR	XZ	VY
X	TY	VZ	ZU	X	VY	R	TZ	ZR	ZX
V	TZ	ZX	TS	V	ZW	Y	Q	ZT	TR
T	X	R	S	T	Q	Z	V	W	Y
R	VZ	YX	XU	R	WZ	TY	ZX	SY	XR
S	ZU	XU	ZS	S	XS	TU	TS	VS	VU
Q	VY	WZ	XS	Q	RT	TR	ZW	YV	SX