HBase Part 2

by Sumit Mittal



Trainer Introduction



Mr. Sumit Mittal, CEO & founder of TrendyTech. He has a Master's degree in Computer Applications from NIT Trichy & have a total of 7+ years of industry experience. He has worked for top MNC's like Cisco & VMware.



Consistent 5 star Google rated Bigdata course

How Is Data Laid out in HBase? TrendyTech - 9108179578

Notification Data in a Traditional Database

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ld	To	Туре	Content
1	mike	offer	Offer on mobiles
2	john	sale	Redmi sale
3	jill 11e	order	Order delivered
4	megan	sale	Clothes sale

This is a 2-dimensional data model

Notification Data in a Traditional Database

ld	To	Type	Content
1	mike	offer	Offer on mobiles
2	john	sale	Redmi sale
3	jill 11e	order	Order delivered
4	megan	sale	Clothes sale

rendy Tech - unique row id column name

Trendyleo

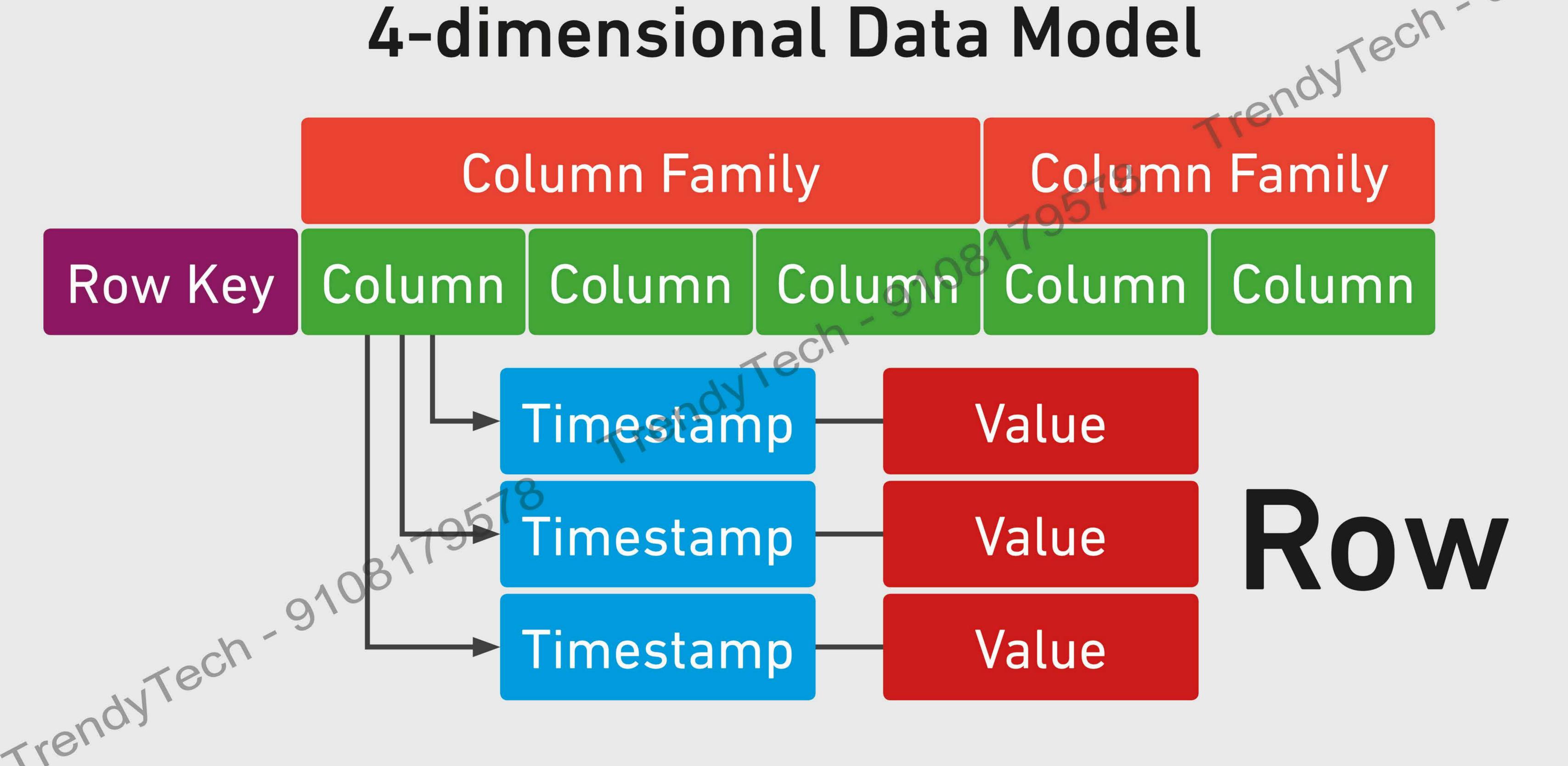
HBase has a 4-dimensional data model

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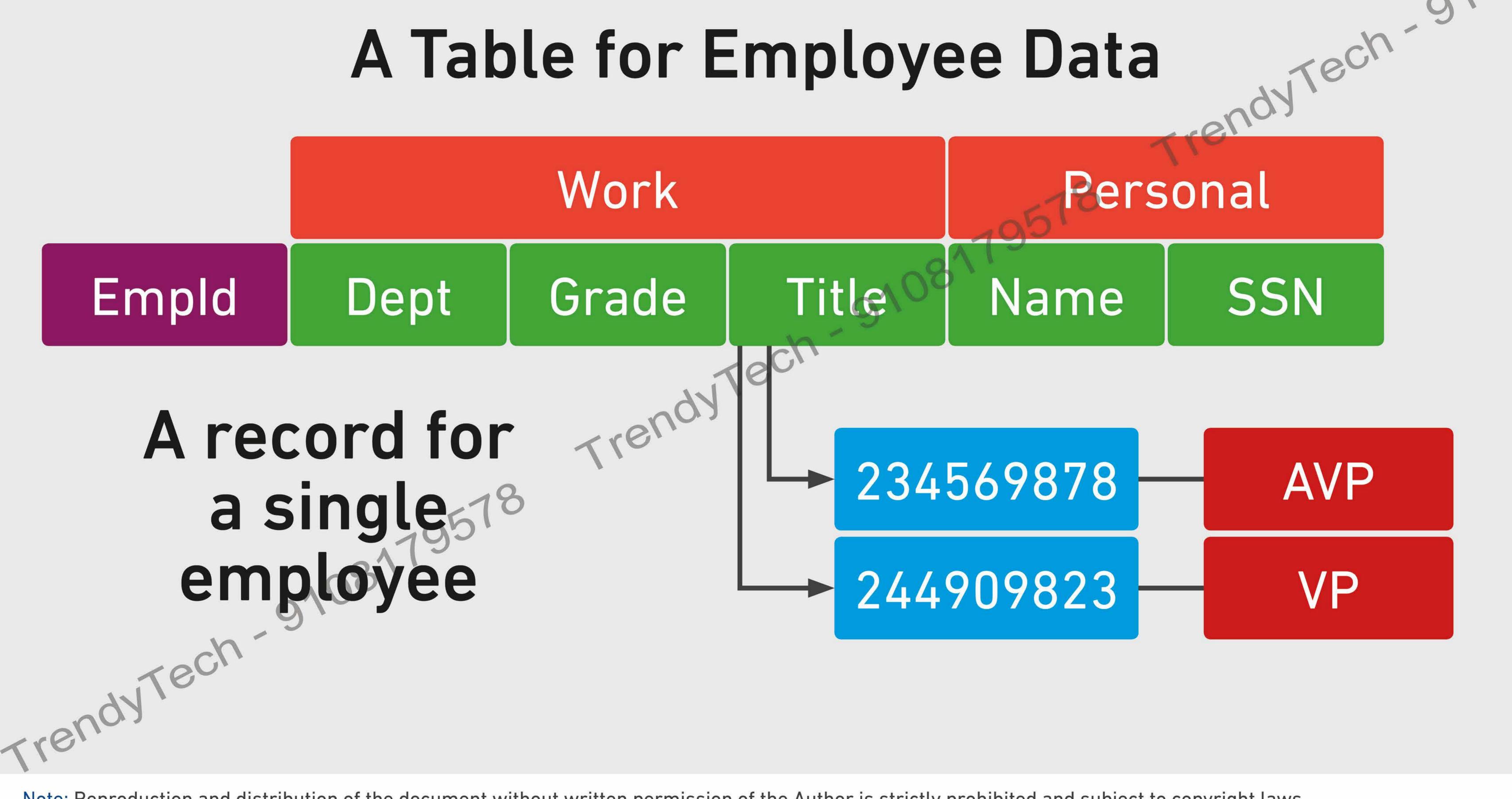
4-dimensional Data Model

Column Row Key Family Column Timestamp

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Notification Data

ld	To	Type	Content
1	mike	offer	Offer on mobiles
2	john	sale	Redmi sale
3	jill	order	Order delivered
4	megan	sale	Clothes sale



ld	Column	Value
1	18To	mike
119	Type	offer
9 1	Content	Offer on mobiles
2	То	john
2	Type	sale
2	Content	Redmi sale
3	То	jill
3	Туре	order
3	Content	Order delivered
4	То	megan
4	Туре	sale
4	Content	Clothes sale

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Row Key

Uniquely identifies a row

Can be primitives, structures, arrays

Represented internally as a byte array

Sorted in ascending order

Column Family

All rows have the same set of column families

Each column family is stored in a separate data file

Set up at schema definition time

Can have different columns for each row

Column

Columns are units within a column family.

New columns can be added on the fly

ColumnFamily: ColumnName = Work:Department

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Timestamp

Used as the version number for the values stored in a column

The value for any version can be accessed

Census Data Layout in HBase

Professional Personal marital_ field gender employed Some ID name status





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Call for more details



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