

Roller Coaster Data from Around the World

Présenté par : Asma Riahi, Ons Boukhris



Points à discuter

- Context du projet
- Conception de l'entrepôt de données
- Intégration des données (Talend)
- Conclusion

Context du projet

Ensemble de données comprend des données sur les montagnes russes du monde entier. Il peut être utilisé pour étudier la popularité de différents types de montagnes russes, les parcs et les fabricants les plus populaires, la relation entre la hauteur et la vitesse, et bien plus encore.



Conception de l'entrepôt de données

Tables des faits

Golden Ticket Award
Winners

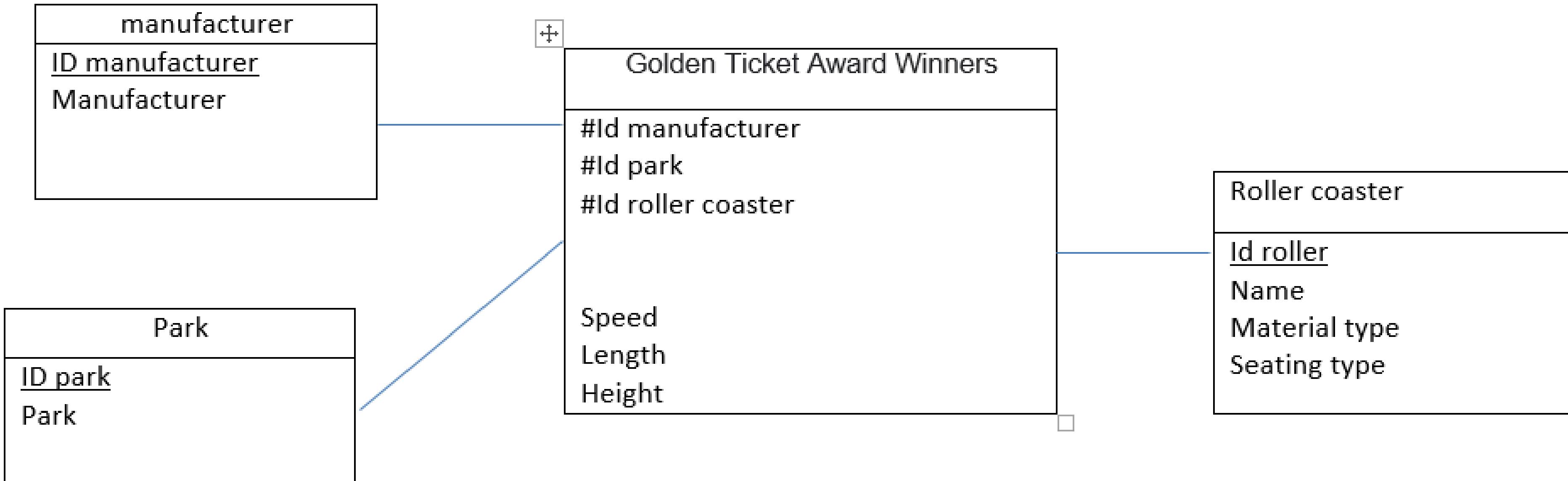
Les dimensions

manufacturer
Park
Roller coaster

Les mesures

Speed
Length
Height

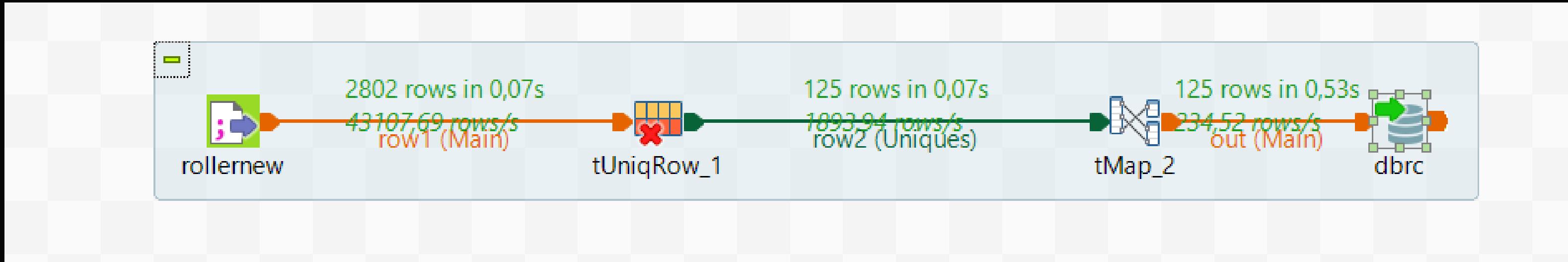
Modèle en étoile



Intégration des données (Talend)



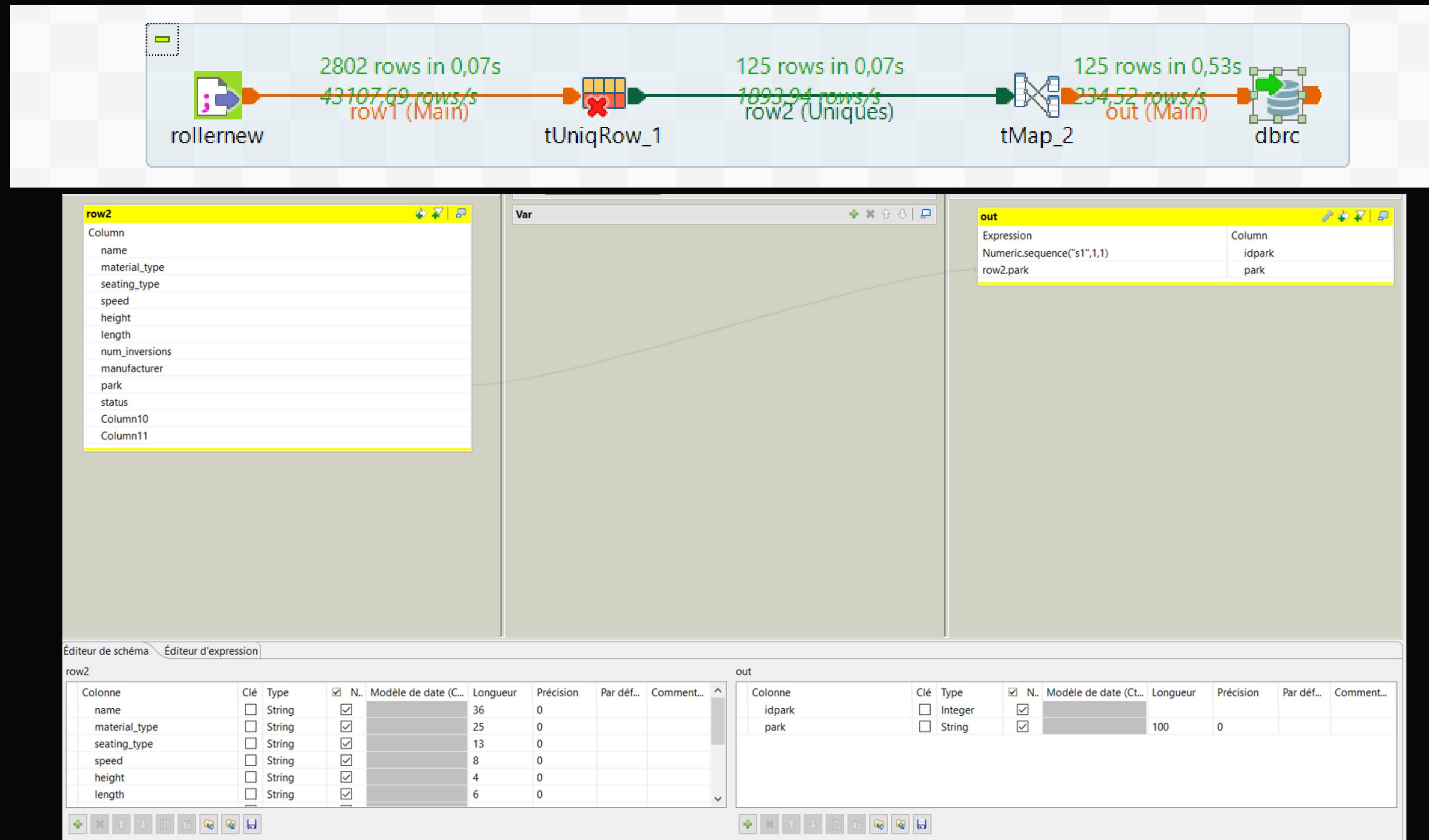
Manufacturer



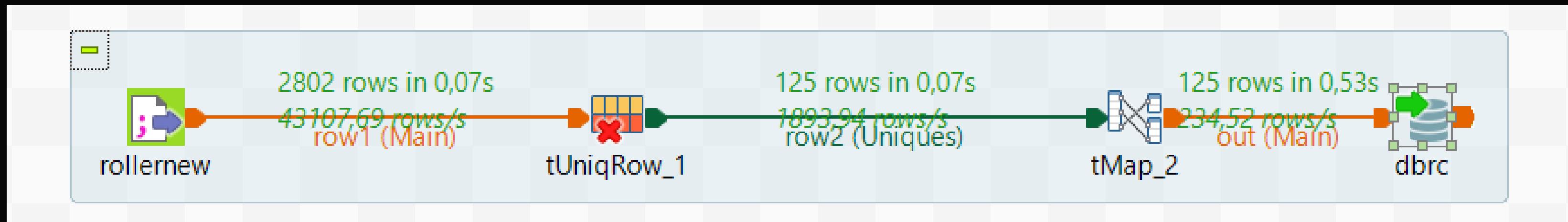
The screenshot shows the Talend Kettle interface with several windows open:

- row2:** A schema editor showing columns: name, material_type, seating_type, speed, height, length, num_inversions, manufacturer, park, status, Column10, and Column11.
- Var:** A variable editor showing an empty list of variables.
- out:** A schema editor showing an output schema with an expression: Numeric.sequence("s1",1,1) and columns: idmanufacturer and manufacturer.
- Éditeur de schéma (row2):** A detailed schema editor for the 'row2' table, showing columns: name, material_type, seating_type, speed, height, length, and their properties like type (String), key (checkbox), and length.
- Éditeur d'expression (out):** A detailed schema editor for the 'out' table, showing columns: idmanufacturer and manufacturer, and their properties.

Park



Roller Coaster



The schema editor shows three tables: "row1", "Var", and "out".

- row1:** Contains columns: name, material_type, seating_type, speed, height, length, num_inversions, manufacturer, park, status, Column10, and Column11.
- Var:** An empty table.
- out:** Contains columns: id_roller, name, material_type, and seating_type. The "id_roller" column is generated by the expression "Numeric.sequence('s1',1,1)".

The "row1" table has the following schema:

Colonne	Clé	Type	N..	Modèle de date (C...)	Longueur	Précision	Par déf...	Comment...
name		String	<input checked="" type="checkbox"/>		36	0		
material_type		String	<input checked="" type="checkbox"/>		25	0		
seating_type		String	<input checked="" type="checkbox"/>		13	0		
speed		String	<input checked="" type="checkbox"/>		8	0		
height		String	<input checked="" type="checkbox"/>		4	0		
length		String	<input checked="" type="checkbox"/>		6	0		

The "out" table has the following schema:

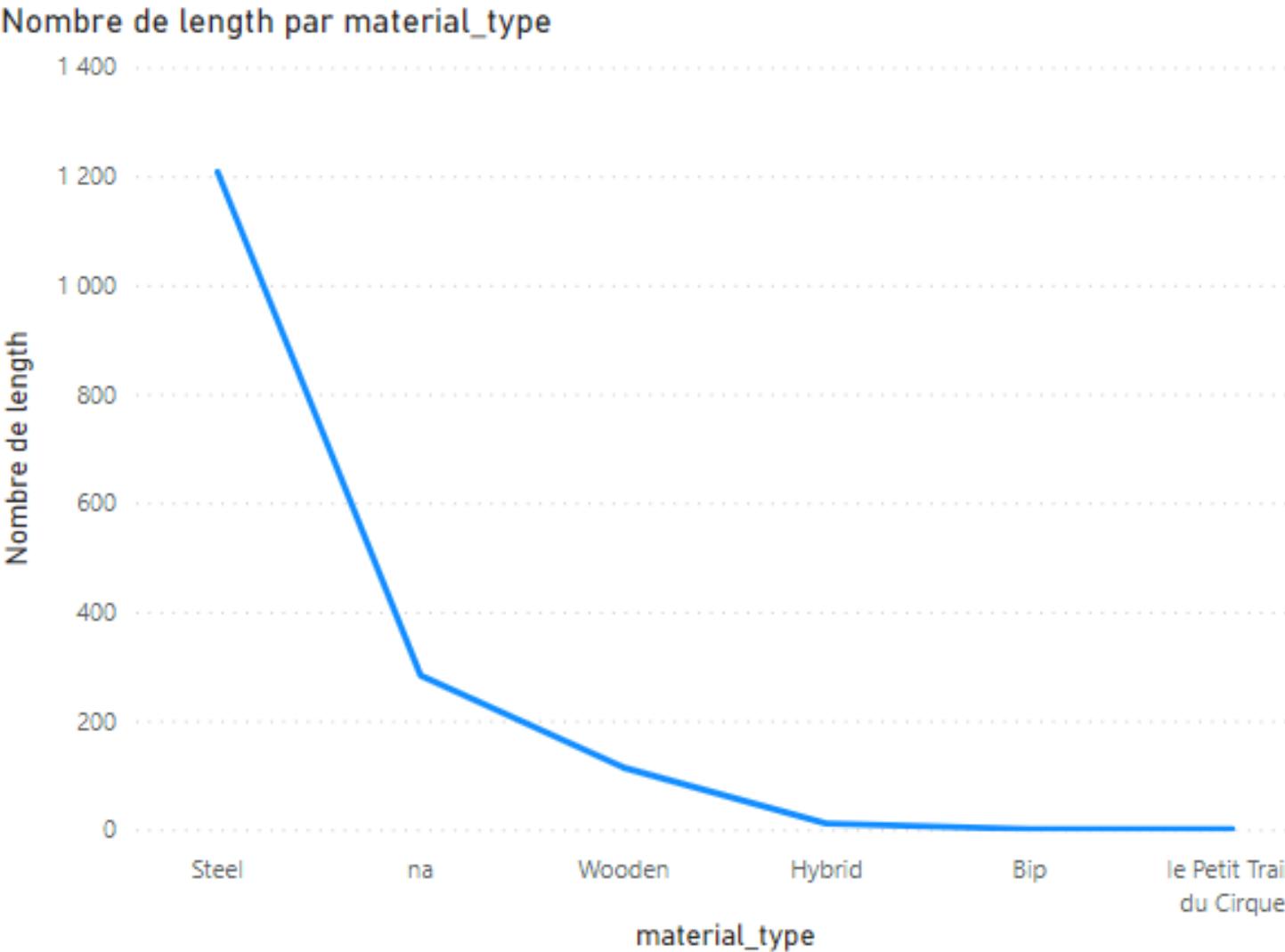
Colonne	Clé	Type	N..	Modèle de date (C...)	Longueur	Précision	Par déf...	Comment...
id_roller		Integer	<input checked="" type="checkbox"/>		36	0		
name		String	<input checked="" type="checkbox"/>		25	0		
material_type		String	<input checked="" type="checkbox"/>		13	0		
seating_type		String	<input checked="" type="checkbox"/>		6	0		

COL 1	COL 2	COL 3	COL 4	COL 5	COL 6	COL 7	COL 8	COL 9	COL 10	COL 11	COL 12
name	material_type	seating_type	speed	height	length	num_inversions	manufacturer	park	status		
Goudurix	Steel	Sit Down	75.0	37.0	950.0	7.0	Vekoma	Parc Asterix	status.operating		
Dream catcher	Steel	Suspended	45.0	25.0	600.0	0.0	Vekoma	Bobbejaanland	status.operating		
Alucinakis	Steel	Sit Down	30.0	8.0	250.0	0.0	Zamperla	Terra Mítica	status.operating		
Anaconda	Wooden	Sit Down	85.0	35.0	1200.0	0.0	William J. Cobb	Walygator Parc	status.operating		
Azteka	Steel	Sit Down	55.0	17.0	500.0	0.0	Soquet	Le Pal	status.operating		
Bat Coaster	Steel	Inverted	70.0	20.0	400.0	2.0	Pinfari	Nigloland	status.relocated		
Batman : Arkham Asylum	Steel	Inverted	80.0	32.0	823.0	5.0	B&M	Parque Warner Madrid	status.operating		
Big Thunder Mountain	Steel	Sit Down	60.0	22.0	1500.0	0.0	Vekoma	Disneyland Park	status.operating		
EqWalizer	Steel	Sit Down	76.0	36.0	285.0	3.0	Vekoma	Walibi Rhône Alpes	status.operating		
Calamity Mine	Steel	Sit Down	48.0	14.0	785.0	0.0	Vekoma	Walibi Belgium	status.operating		
Casey Jr	le Petit Train du Cirque	Steel	Sit Down	30.0		0.0	Vekoma		Disneyland Park	status.operating	
Cobra	Steel	Sit Down	76.0	36.0	285.0	3.0	Vekoma	Walibi Belgium	status.operating		
Coccinelle	Steel	Sit Down	36.0	8.0	360.0	0.0	Zierer	Walibi Rhône Alpes	status.operating		
Coleoz'Arbres	Steel	Sit Down	60.0		540.0	0.0	Schwarzkopf	Bagatelle	status.closed.definitely		
Comet	Steel	Sit Down	64.0	24.0		3.0	Vekoma	Walygator Parc	status.operating		
Course de Bobsleigh	Steel	Sit Down	65.0	15.0	450.0	0.0	Schwarzkopf	Nigloland	status.relocated		
Cumbres	Steel	Sit Down		3.0		0.0	Miler Coaster	Parque de Atracciones de Madrid	status.closed.definitely		
Le Dragon de Bei Hai	Steel	Sit Down			0.0		Cavazza Diego	La Mer de Sable	status.closed.definitely		
Euro Mir	Steel	Spinning	80.0	28.0	980.0	0.0	Mack	Europa Park	status.operating		
Eurosat	Steel	Sit Down	60.0	26.0	877.0	0.0	Mack	Europa Park	status.retracked		
Expedition Ge Force	Steel	Sit Down	120.0	53.0	1220.0	0.0	Intamin	Holiday Park	status.operating		
Le Grand canyon	Steel	Sit Down	50.0	12.0	380.0	0.0	Soquet	Fraispertuis City	status.operating		
Indiana Jones et le Temple du Péril	Steel	Sit Down	58.0	18.0	566.0	1.0	Intamin	Disneyland Park	status.operating		
Jaguar	Steel	Inverted	83.0	34.0	689.0	5.0	Vekoma	Isla Magica	status.operating		

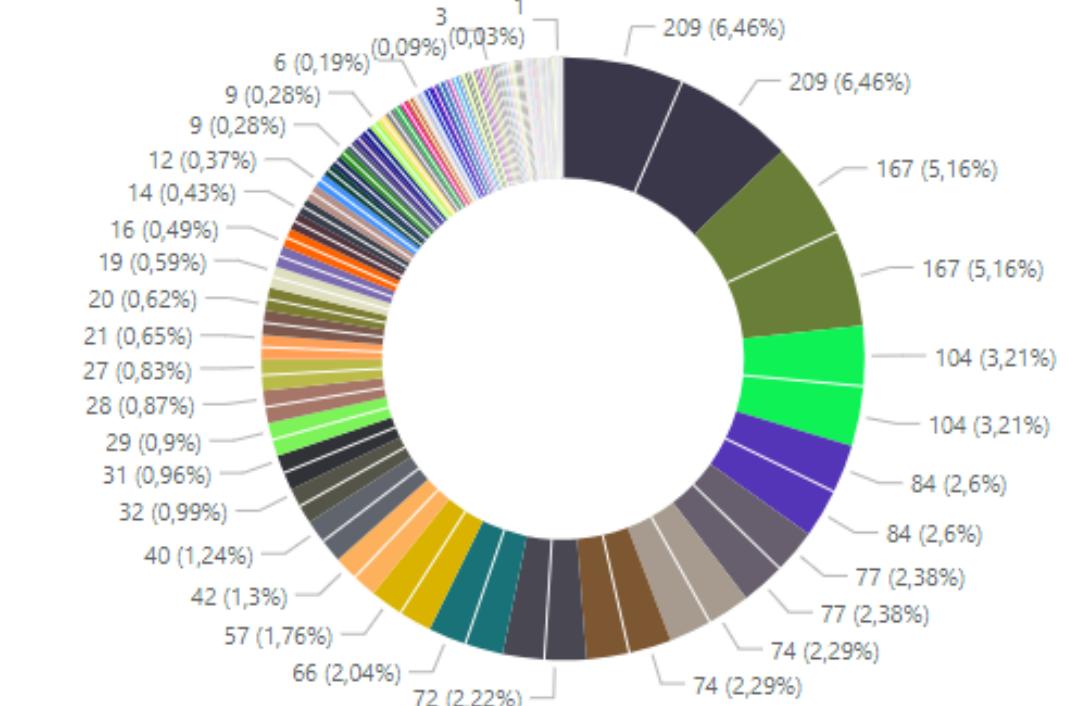
Rank	Name	Park	Location	Supplier	Year Built	Points	Year of Rank
1	Millennium Force	Cedar Point	Sandusky, Ohio	Intamin	2000	1204	2013
2	Bizarro	Six Flags New England	Agawam, Mass.	Intamin	2000	1011	2013
3	Expedition GeForce	Holiday Park	Hassloch, Germany	Intamin	2001	598	2013
4	Nitro	Six Flags Great Adventure	Jackson, N.J.	B&M	2001	596	2013
5	Apollo's Chariot	Busch Gardens Williamsburg	Williamsburg, Va.	B&M	1999	542	2013
6	New Texas Giant	Six Flags Over Texas	Arlington, Texas	Rocky Mountain	2011	512	2013
7	Goliath	Six Flags Over Georgia	Austell, Ga.	B&M	2006	494	2013
8	Intimidator	Carowinds	Charlotte, N.C.	B&M	2010	478	2013
9	Magnum XL-200	Cedar Point	Sandusky, Ohio	Arrow	1989	416	2013
10	Intimidator-305	Kings Dominion	Doswell, Va.	Intamin	2010	412	2013
1	Millennium Force	Cedar Point	Sandusky, Ohio	Intamin	2000	1139	2014
2	Bizarro	Six Flags New England	Agawam, Mass.	Intamin	2000	1049	2014
3	Expedition GeForce	Holiday Park	Hassloch, Germany	Intamin	2001	764	2014
4	Diamondback	Kings Island	Mason, Ohio	B&M	2009	579	2014
5	Nitro	Six Flags Great Adventure	Jackson, N.J.	B&M	2001	563	2014
6	Leviathan	Canada's Wonderland	Vaughan, Ont., Canada	B&M	2012	500	2014
7	Apollo's Chariot	Busch Gardens Williamsburg	Williamsburg, Va.	B&M	1999	484	2014
8	New Texas Giant	Six Flags Over Texas	Arlington, Texas	Rocky Mountain	2011	465	2014
9	Goliath	Six Flags Over Georgia	Austell, Ga.	B&M	2006	422	2014
10	Intimidator	Carowinds	Charlotte, N.C.	B&M	2010	387	2014
1	Millennium Force	Cedar Point	Sandusky, Ohio	Intamin	2000	1205	2015
2	Bizarro	Six Flags New England	Agawam, Mass.	Intamin	2000	929	2015
3	Expedition GeForce	Holiday Park	Hassloch, Germany	Intamin	2001	714	2015
4	Fury 325	Carowinds	Charlotte, N.C.	B&M	2015	671	2015
5	Nitro	Six Flags Great Adventure	Jackson, N.J.	B&M	2001	650	2015

Power BI

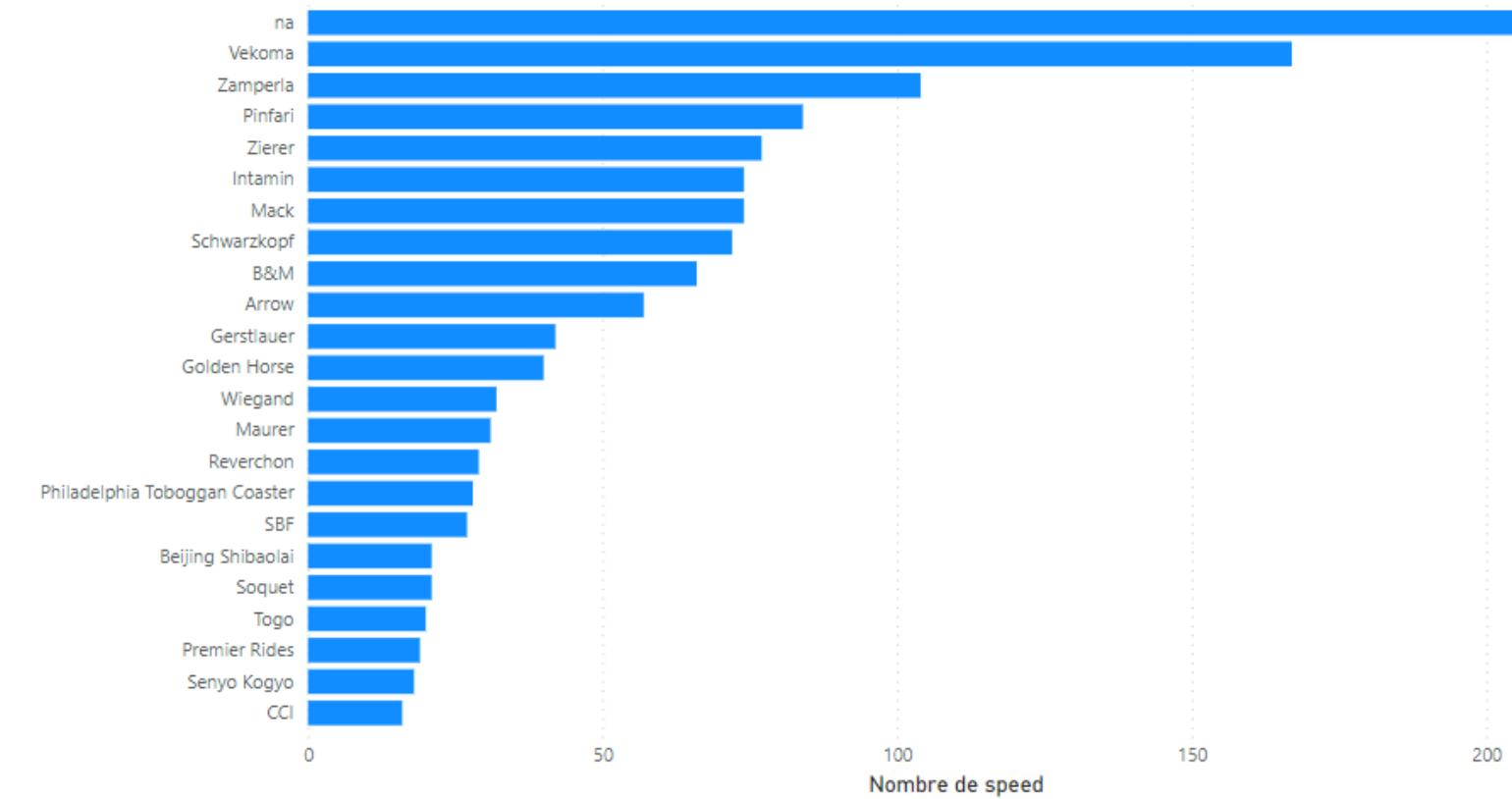




Nombre de length et Nombre de speed par manufacturer

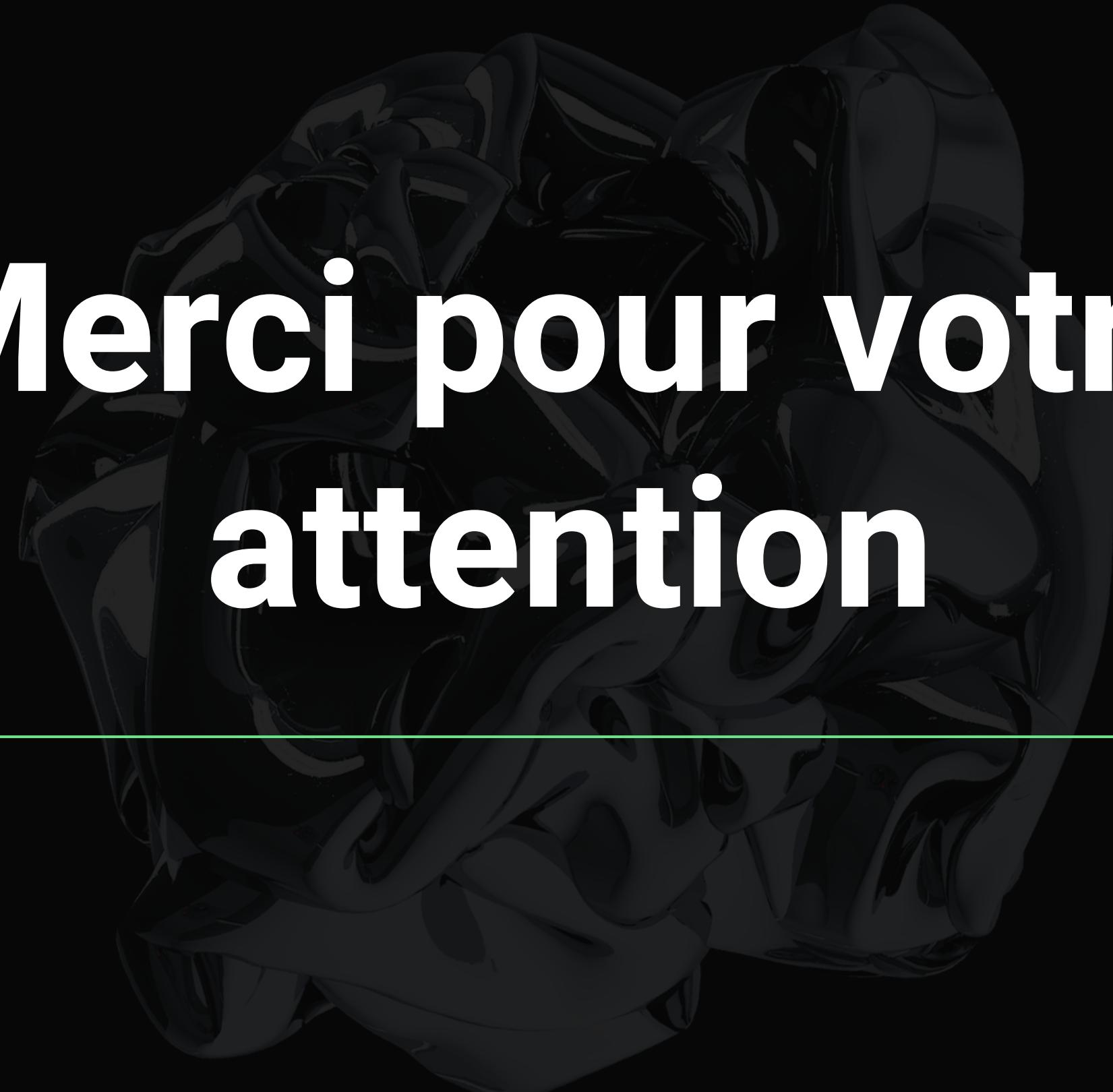


Nombre de speed par manufacturer



Conclusion

Une BI efficace aide les entreprises à trouver des réponses à leurs questions sur leurs données. Elle leur permet de prendre des décisions plus éclairées en présentant des données actuelles et historiques dans leur contexte métier.



Merci pour votre
attention

