

improving 

# Who are we?

Improving is a modern digital services company that offers IT consulting, software development, and agile training across the globe.

Best Place To Work



VANCOUVER

CALGARY

OTTAWA

MINNEAPOLIS

OMAHA

CHICAGO

CLEVELAND

COLUMBUS

DALLAS

ATLANTA

AUSTIN

HOUSTON

GUADALAJARA

AGUASCALIENTES

We have  
presence  
all over  
North America

improving 

# Awards & Recognition



Best Place To Code



Best Place To Work For IT



Mejores Lugares Para Trabajar LGBT



Pride Connection Mx



Fastest Growing Companies in Central Texas



Fastest Growing Companies



National Export Award



National Entrepreneurship Award



Top International Vendor



State Export Award



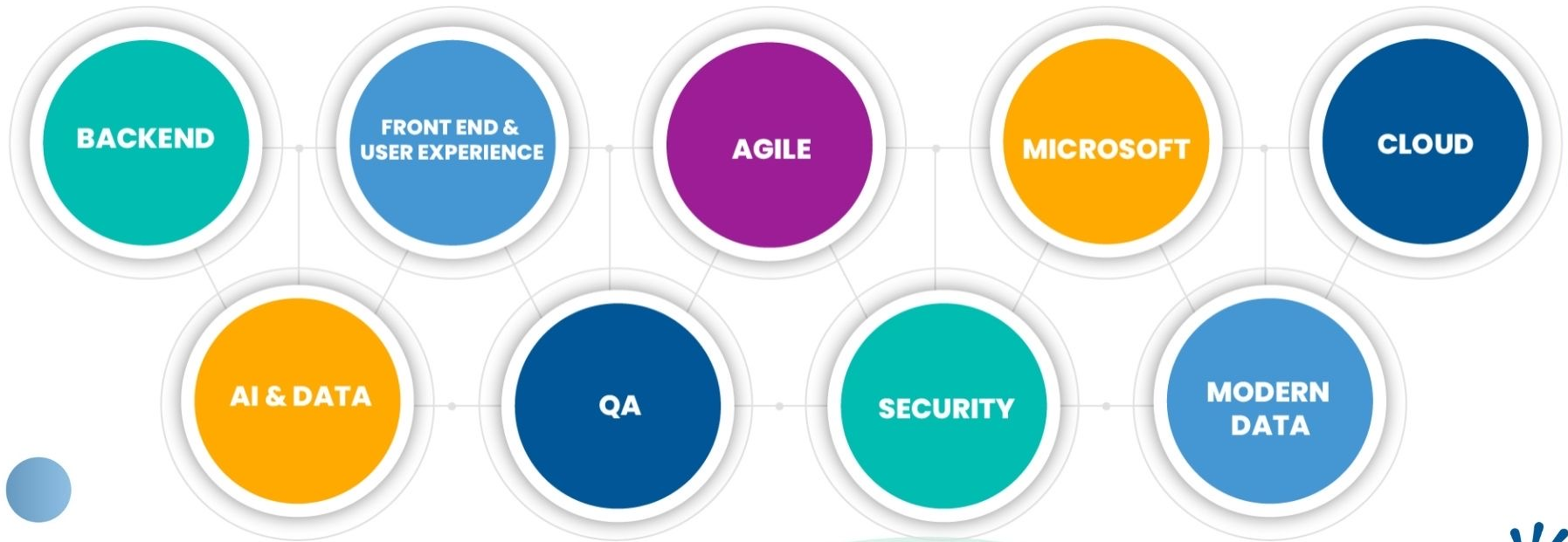
Mobile Innovation Award



Emerging Business of the Year

improving 

# Improving Expertise



# Improving Benefits

improving 



Major & minor  
medical insurance



Wedding, maternity  
and paternity Leave



Mental  
health



Dental  
health



Seniority  
bonus



16 day vacations  
& holidays



Life  
insurance



Savings  
program



Career  
path



Udemy business  
account



Discount and  
promotions



Certifications  
and trainings



Annual company  
retreat



Total Pass for over 2,600  
gyms across MX



Rewards  
program

**This is...**

**improving**





improving 





improving 



# Follow us in Social Media!



Improving Nearshore



@ImprovingMxJobs



ImprovingMx Jobs



Improving Nearshore





# StepFunction

## Growth Copilot

Predicción y acción

# Uso de IA en manejo de Datos

Exploración

Clasificación

Calidad

Análisis

Predicción

## Uso de IA en manejo de Datos

Exploración

Clasificación

Calidad

Análisis

Predicción

Selección de tablas útiles

Relación entre tablas

Traducción entre IDs

Selección de campos

Métricas generales

## Uso de IA en manejo de Datos

Exploración

Clasificación

Calidad

Análisis

Predicción

Tema del objeto:

Ventas / Uso / Soporte / CRM

Granularidad:

Transaccional / Diario / Mensual

Descriptivo - Comportamiento

Preclasificación de campos

## Uso de IA en manejo de Datos

Exploración

Clasificación

Calidad

Análisis

Predicción

Advertencias:

Nulos, Duplicados, Variación

Sugerencias:

Filtros, Reemplazos, Formatos

Identificación de casos atípicos

Corrección de errores



## Uso de IA en manejo de Datos

Exploración

Clasificación

Calidad

Análisis

Predicción

Estadísticas para validación de métricas de negocio

Correlaciones y patrones

# Uso de IA en manejo de Datos

Exploración  
Clasificación  
Calidad  
Análisis  
Predicción





## Predicción

Validación de predicciones contra histórico  
Con datos históricos limitados

## Acción

Validación acciones y resultados en la atención al cliente  
Retroalimentación para generar mejores sugerencias

# Your Dataset Has Missing Values? Do Nothing!

Models can handle missing values out-of-the-box more effectively than imputation methods. An empirical proof



Samuele Mazzanti · Follow

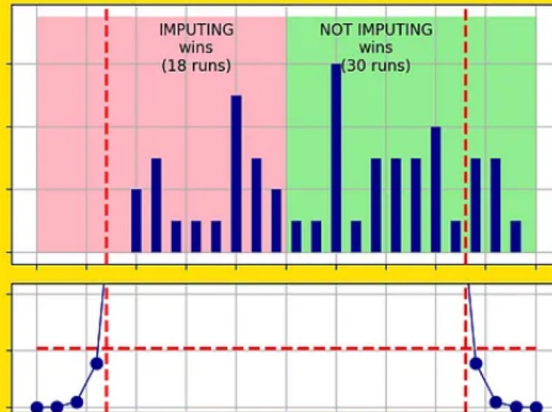
Published in Towards Data Science · 10 min read · Oct 9



665



5



# Data Engineering: Zero ETL Past, LLM new future of Data Engineering



Rahul Singh · Follow

5 min read · May 5



57



1



Author: Rahul Singh

New Data Stack Evolve

## Data Engineering Zero ETL Past LLM new future of Data

Get Ready for Advance Data Stack

Author:

RAHUL SINGH



## SQL

Perform a SELECT SQL query to create the next dataset

Apply only one query at a time.

Generate



|                         |           |
|-------------------------|-----------|
| CASE_COUNT_OWNER        | TEXT      |
| CASE_CATALOG_TYPE       | TEXT      |
| CASE_CATEGORY           | TEXT      |
| CASE_CLOSEDDATE_DT      | TIMESTAMP |
| CASE_COUNT_OWNER        | TEXT      |
| CASE_COUNT_PROVIDE...   | TEXT      |
| CASE_COUNT_STATUS       | TEXT      |
| CASE_CREATEDDATE_DT     | TIMESTAMP |
| CASE_CURRENT_PROVID...  | TEXT      |
| CASE_DIRECTLY__DIREC... | TEXT      |
| CASE_DISC_FEES          | TEXT      |
| CASE_DISC_OVERRIDE_F... | TEXT      |
| CASE_ESCALATED_BY_ID    | TEXT      |
| CASE_ESCALATED_DATE...  | TEXT      |

Run

## SQL

Perform a SELECT SQL query to create the next dataset

Apply only one query at a time.

```
convert case_createddate_dt to varchar and in format "yyyy-mm"
```



Generate



|                         |           |
|-------------------------|-----------|
| CASE_COUNT_OWNER        | TEXT      |
| CASE_CATALOG_TYPE       | TEXT      |
| CASE_CATEGORY           | TEXT      |
| CASE_CLOSEDDATE_DT      | TIMESTAMP |
| CASE_COUNT_OWNER        | TEXT      |
| CASE_COUNT_PROVIDE...   | TEXT      |
| CASE_COUNT_STATUS       | TEXT      |
| CASE_CREATEDDATE_DT     | TIMESTAMP |
| CASE_CURRENT_PROVID...  | TEXT      |
| CASE_DIRECTLY__DIREC... | TEXT      |
| CASE_DISC_FEES          | TEXT      |
| CASE_DISC_OVERRIDE_F... | TEXT      |
| CASE_ESCALATED_BY_ID    | TEXT      |
| CASE_ESCALATED_DATE...  | TEXT      |

Run

## SQL

Perform a SELECT SQL query to create the next dataset

Apply only one query at a time.

convert case\_createddate\_dt to varchar and in format "yyyy-mm"

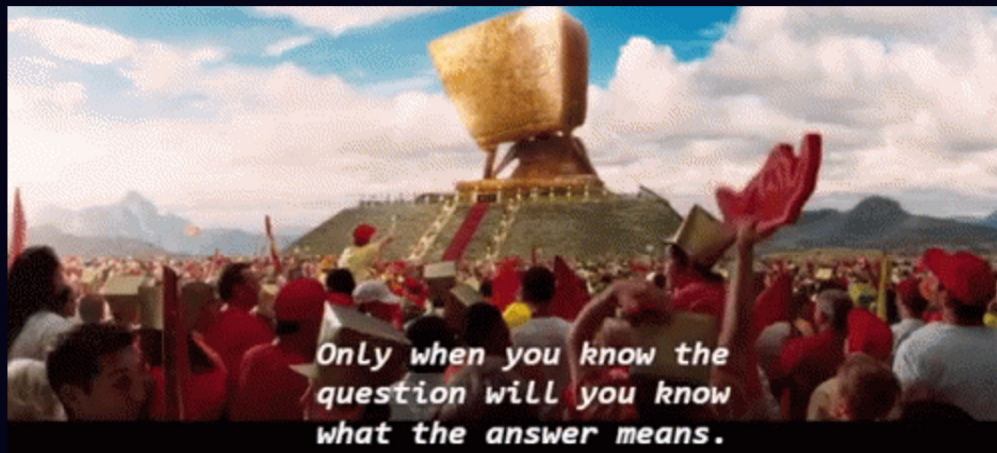
Generate

```
1  
2  
3 CREATE TABLE cases (  
4   case_id INT PRIMARY KEY,  
5   case_createddate_dt DATE,  
6   case_status VARCHAR(20)  
7 )
```

|                         |           |
|-------------------------|-----------|
| CASE_CREATEDDATE_DT     | TEXT      |
| CASE_CATALOG_TYPE       | TEXT      |
| CASE_CATEGORY           | TEXT      |
| CASE_CLOSEDDATE_DT      | TIMESTAMP |
| CASE_COUNT_OWNER        | TEXT      |
| CASE_COUNT_PROVIDE...   | TEXT      |
| CASE_COUNT_STATUS       | TEXT      |
| CASE_CREATEDDATE_DT     | TIMESTAMP |
| CASE_CURRENT_PROVID...  | TEXT      |
| CASE_DIRECTLY__DIREC... | TEXT      |
| CASE_DISC_FEES          | TEXT      |
| CASE_DISC_OVERRIDE_F... | TEXT      |
| CASE_ESCALATED_BY_ID    | TEXT      |
| CASE_ESCALATED_DATE...  | TEXT      |

Run





*Only when you know the  
question will you know  
what the answer means.*



remove the image column, add also honda xre300, yamaha lander xtz250 and sort them by power to weight ratio




| Motorcycle               | Weight (dry)     | Horsepower | Power-to-weight ratio |
|--------------------------|------------------|------------|-----------------------|
| KTM 890 Adventure R      | 517 lbs (235 kg) | 105 hp     | 0.203 hp/lb           |
| Husqvarna Svartpilen 701 | 439 lbs (199 kg) | 75 hp      | 0.171 hp/lb           |
| Yamaha Tenere 700        | 449 lbs (204 kg) | 73 hp      | 0.162 hp/lb           |
| Husqvarna Svartpilen 401 | 364 lbs (165 kg) | 43 hp      | 0.118 hp/lb           |
| KTM 390 Adventure        | 357 lbs (162 kg) | 43 hp      | 0.120 hp/lb           |
| Kawasaki Versys-X 300    | 375 lbs (170 kg) | 39 hp      | 0.104 hp/lb           |
| BMW G 310 GS             | 374 lbs (170 kg) | 34 hp      | 0.091 hp/lb           |
| Honda CRF300L Rally      | 315 lbs (143 kg) | 27 hp      | 0.085 hp/lb           |
| Kawasaki KLX300SM        | 319 lbs (145 kg) | 33 hp      | 0.103 hp/lb           |
| Suzuki V-Strom 250       | 364 lbs (165 kg) | 26 hp      | 0.071 hp/lb           |
| Honda XRE300             | 308 lbs (140 kg) | 25 hp      | 0.081 hp/lb           |



keep all weights on kgs only, add price, add honda xr 190l, suzuki dr 200s, kawasaki z400, kawasaki klx300



| Motorcycle               | Weight (dry) | Horsepower | Power-to-weight ratio | Price    |
|--------------------------|--------------|------------|-----------------------|----------|
| KTM 890 Adventure R      | 235 kg       | 105 hp     | 0.203 hp/kg           | \$13,499 |
| Husqvarna Svartpilen 701 | 199 kg       | 75 hp      | 0.171 hp/kg           | \$11,399 |
| Yamaha Tenere 700        | 204 kg       | 73 hp      | 0.162 hp/kg           | \$9,999  |
| Husqvarna Svartpilen 401 | 165 kg       | 43 hp      | 0.118 hp/kg           | \$5,999  |
| KTM 390 Adventure        | 162 kg       | 43 hp      | 0.120 hp/kg           | \$6,499  |
| Kawasaki Versys-X 300    | 170 kg       | 39 hp      | 0.104 hp/kg           | \$4,999  |
| BMW G 310 GS             | 170 kg       | 34 hp      | 0.091 hp/kg           | \$5,699  |
| Honda CRF300L Rally      | 143 kg       | 27 hp      | 0.085 hp/kg           | \$5,499  |
| Kawasaki KLX300          | 142 kg       | 26 hp      | 0.092 hp/kg           | \$4,399  |
| Suzuki V-Strom 250       | 165 kg       | 26 hp      | 0.071 hp/kg           | \$4,799  |
| Honda XRE300             | 140 kg       | 25 hp      | 0.081 hp/kg           | \$4,299  |

 can you show me the detail for the power-to-weight ratio of the triumph scrambler?



◆ The Triumph Scrambler 400X has a power-to-weight ratio of 0.106 hp/kg. This means that for every kilogram of weight, the Scrambler 400X has 0.106 horsepower.

To calculate this, we divide the Scrambler 400X's horsepower (37 hp) by its weight (179 kg):

$$\text{Power-to-weight ratio} = 37 \text{ hp} / 179 \text{ kg} = 0.106 \text{ hp/kg}$$

A higher power-to-weight ratio means that the motorcycle has more power relative to its weight, and will therefore accelerate faster. However, it is important to note that power-to-weight ratio is not the only factor that affects acceleration. Other factors, such as the motorcycle's gearing and aerodynamics, also play a role.

The Triumph Scrambler 400X has a relatively average power-to-weight ratio for a motorcycle of its class. However, it is still a capable performer, and is capable of accelerating quickly from a standstill. It is also worth noting that the Scrambler 400X is designed to be a versatile motorcycle, and is not focused solely on performance. It is also comfortable and easy to ride, making it a good choice for a wide range of riders.







please divide 37 by 179

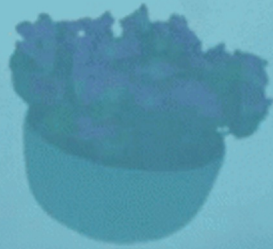


37 divided by 179 is approximately 0.20670391061452514.

You can also use a calculator to divide 37 by 179. Simply enter the numbers into the calculator and press the divide button. The calculator will display the answer, which is 0.20670391061452514.



**Oh no,  
not again.**



# Atlan AI - Documentation in seconds

**FCT\_ORDERS**

Showing only columns with no descriptions Search 23 columns

| <input type="checkbox"/> Column Name         | Atlan AI Suggested Descriptions                                      |
|--|--|
| <input type="checkbox"/> # ORDER_ID          | The ORDER_ID column in the FCT_ORDERS table uniquely identifies...   |
| <input type="checkbox"/> # ORDER_LINE_ID     | The ORDER_LINE_ID column in the FCT_ORDERS table uniquely...         |
| <input type="checkbox"/> A ORDER_DESCRIPTION | The ORDER_DESCRIPTION column in the FCT_ORDERS table provid...       |
| <input type="checkbox"/> # STOCK_ITEM_ID     | The STOCK_ITEM_ID column in the FCT_ORDERS table is a unique...      |
| <input type="checkbox"/> A STOCK_ITEM_NAME   | The STOCK_ITEM_NAME column in the FCT_ORDERS table contains...       |
| <input type="checkbox"/> A BRAND             | The BRAND column in the FCT_ORDERS table within the ANALYTICS...     |
| <input type="checkbox"/> # UNIT PRICE        | THE UNIT PRICE column in the FCT_ORDERS table within the ANALYTIC... |

AI generated content may be incorrect

Cancel Apply



# JP Morgan pulls plug on deep learning model for FX algos

US bank turns to less complex models that are easier to explain to clients



JP Morgan has phased out a model that leverages machine learning technology for foreign exchange algorithmic execution, citing issues with data interpretation and the complexity involved.

**DON'T  
PANIC**

# IA necesita supervisión adulta

*Imagina a un ejército de asistentes con energía y acceso a internet  
Quítales el sentido común, concentración, conciencia, memoria...  
Sus errores serán impredecibles*

Trata a la inteligencia artificial como a un usuario

Valida su resultado

Visibiliza su proceso

Restringe su campo de acción

# Niveles de integración

***1. Recomendaciones con confirmación***

***2. Sugerencias o acciones por defecto***

***3. Acción sin aviso***



**So long and thanks for all the fish.**