

ESCUELA SUPERIOR POLITÉCNICA DE CHIMBORAZO

FACULTAD DE CIENCIAS



TEMA:

CLASE 28 PAGINA WEB CON MONGO ATLAS

CARRERA:

ESTADÍSTICA

MATERIA:

DATOS NO ESTRUCTURADOS

PAO:

QUINTO

NOMBRE:

KEYLA VILEMA

RIOBAMBA

2025-2026

CAPTURAS

1. INGRESAMOS A NUESTRA CUENTA DE MONGO ATLAS

The screenshot shows the MongoDB Atlas interface. At the top, it displays the organization "Keyla's Org - 2025-12..." and project "Project 0". A message box at the top right says "Current IP Address not added. You will not be able to connect to databases from this address." with buttons "Add Current IP Address" and "Do not show me again". The main area is titled "Project 0 Overview" and shows a "Clusters" section with "Cluster0" listed. Below it are "Connect" and "Edit configuration" buttons. A note says "Monitoring for Cluster0 is paused." with a link to "Visit the documentation for more info". To the right is a "Toolbar" with sections for "Resources" (selected), "Tips (1)", "Performance (0)", "Cost (0)", and "Resilience (0)". On the left sidebar, there are sections for Project Overview, DATABASE (Clusters, Search & Vector Search, Data Explorer, Backup), STREAMING DATA (Stream Processing, Triggers), SERVICES (Migration, Data Federation, Visualization), and SECURITY.

2. Conectamos el Clusters 0

The screenshot shows a modal window titled "Connect to Cluster0" with three steps: "Set up connection security" (completed with a green checkmark), "Choose a connection method" (step 2), and "Connect" (step 3). The "Choose a connection method" step is currently active. Below this, there are sections for "Connect to your application" (Drivers, Compass, Shell) and "Access your data through tools" (MongoDB for VS Code). The background shows the same MongoDB Atlas interface as the previous screenshot.

3. Nos ubicamos en drivers

Connect to Cluster0

Connecting with MongoDB Driver

1. Select your driver and version
We recommend installing and using the latest driver version.

Driver	Version
Node.js	6.7 or later

2. Install your driver
Run the following on the command line

```
npm install mongodb
```

[View MongoDB Node.js Driver installation instructions.](#)

3. Add your connection string into your application code

Use this connection string in your application

View full code sample

```
mongodb+srv://keylavilema01_db_user:<db_password>@cluster0.ugumyzt.mongodb.net/?appName=Cluster0
```

Toolbar
Resources
Performance
Cost (0)
Resilience

4. Obtuvimos la conexión mediante R

```

library(shiny)
library(shinydashboard)
library(DT)
library(ggplot2)
library(dplyr)
library(readxl)
library(mongolite) # Librería para MongoDB

# --- CONFIGURACIÓN DE MONGODB ---
# Usando tus credenciales proporcionadas anteriormente
url_conexion <- "mongodb+srv://keylavilema01_db_user:FTG0VDQG1BxTeOif@cluster0.ugumyzt.mongodb.net/?appName=Cluster0"

# Conexión a la colección 'estudiantes' en la base de datos 'universidad'
db <- mongo(
  collection = "estudiantes",
  db = "universidad",
  url = url_conexion
)

# Rutas para recursos multimedia (Asegúrate de que existan en tu PC)

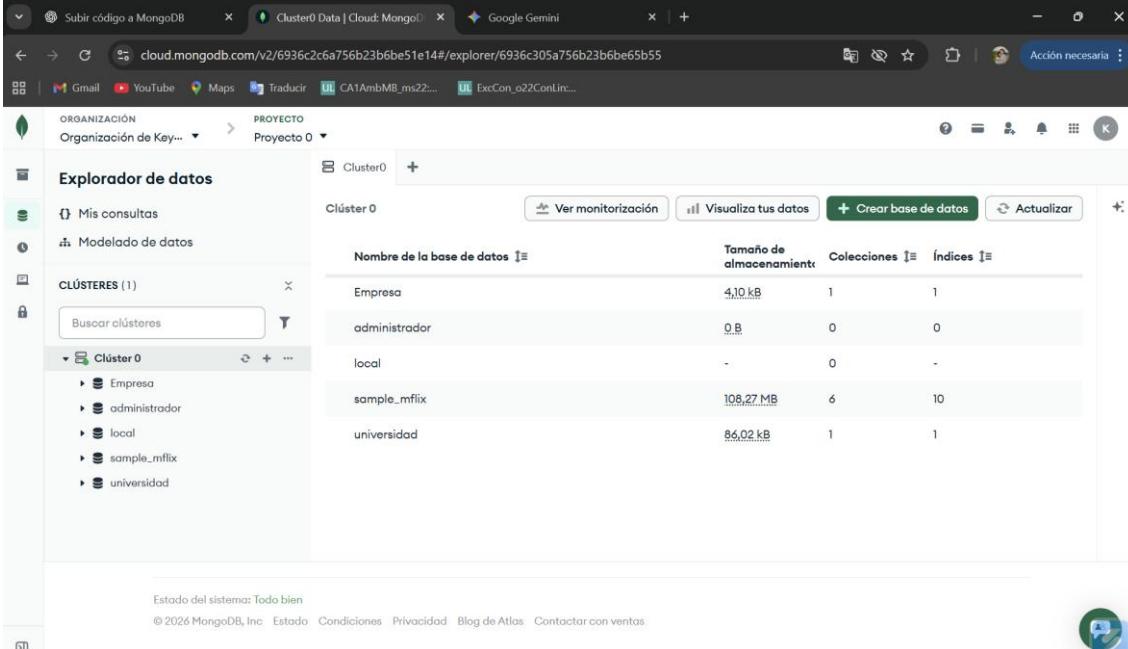
```

```

+ req(nrow(df) > 0)
+ df_apr <- df %>% mutate(aprueba = ifelse((nota1+nota2)>=14, "Aprueba", "Reprueba"))
+ ggplot(df_apr, aes(semestre, fill=aprueba)) + geom_bar(position="dodge")
+
+ output$graf_paste1 <- renderPlot({
+   df <- obtener_datos()
+   req(nrow(df) > 0)
+   df_pie <- df %>% mutate(aprueba = ifelse((nota1+nota2)>=14, "Aprueba", "Reprueba")) %>% count(aprueba)
+   ggplot(df_pie, aes("", n, fill=aprueba)) + geom_col() + coord_polar("y")
+ })
+ }
> shinyApp(ui, server)

```

5. Obtenemos la conexión con éxito



The screenshot shows the MongoDB Cloud Data Explorer interface. The left sidebar has sections for 'ORGANIZACIÓN' (Organización de Key...), 'PROYECTO' (Proyecto 0), 'Explorador de datos' (Data Explorer), 'Mis consultas' (My queries), 'Modelado de datos' (Data modeling), and 'CLÚSTERES (1)' (Clusters (1)). Under 'CLÚSTERES (1)', there is a dropdown menu for 'Buscar clústeres' and a list for 'Cluster 0' containing 'Empresa', 'administrador', 'local', 'sample_mflix', and 'universidad'. The main area is titled 'Cluster0' and shows a table for 'Nombre de la base de datos' (Database name) with columns for 'Tamaño de almacenamiento' (Storage size), 'Colecciones' (Collections), and 'Índices' (Indexes). The table data is as follows:

Nombre de la base de datos	Tamaño de almacenamiento	Colecciones	Índices
Empresa	4.10 kB	1	1
administrador	0 kB	0	0
local	-	0	-
sample_mflix	108.27 MB	6	10
universidad	86.02 kB	1	1

At the bottom of the interface, there is a footer with links: 'Estado del sistema: Todo bien', '© 2026 MongoDB, Inc.', 'Estado', 'Condiciones', 'Privacidad', 'Blog de Atlas', and 'Contactar con ventas'.

6. Observamos que se subió correctamente

R ~ - Shiny

http://127.0.0.1:3033 | Open in Browser | C

Sistema Multimedia

- Cargar Excel
- + Ingreso
- Buscar Estudiante**
- Estadísticas Notas
- Aprobados por Semestre

ID Estudiante

Buscar

Maria C

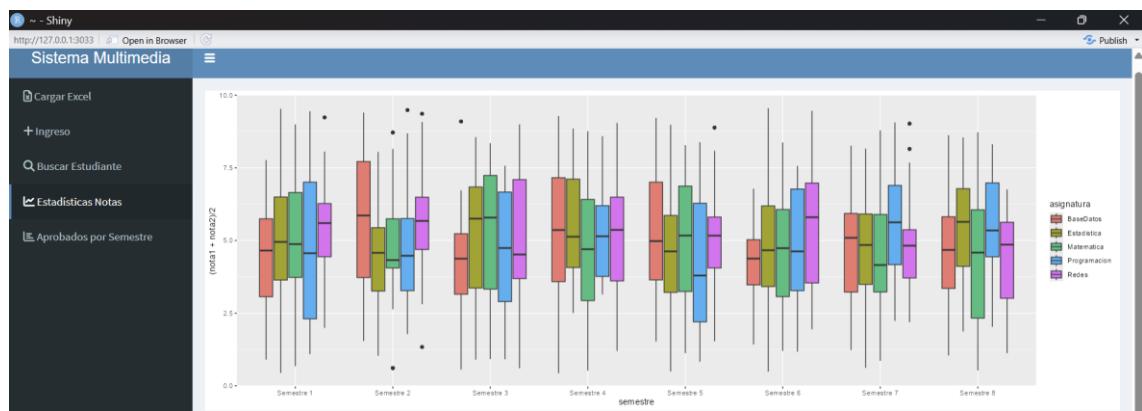




Metallica: Nothing El..

Play

id	nombre	sexo	edad	ciudad	provincia	talla
1.00	Maria C	Femenino	20.00	Quito	Pichincha	1.65
1.00	Maria C	Femenino	20.00	Quito	Pichincha	1.65
1.00	Maria C	Femenino	20.00	Quito	Pichincha	1.65



http://127.0.0.1:3033 | Open in Browser | ⌂

Sistema Multimedia

- Cargar Excel
- + Ingreso
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- Aprobados por Semestre

Seleccionar archivo Excel

Browse... estudiantes (1).xl
Upload complete

Show	10	entries	Search:			
id	nombre	sexo	edad	ciudad	provincia	
1	1	Maria C	Femenino	20	Quito	Pichincha
2	2	Jose W	Masculino	30	Quito	Pichincha
3	3	Pedro G	Femenino	21	Ambato	Chimborazo
4	4	Ana L	Femenino	27	Ambato	Guayas
5	5	Maria R	Masculino	18	Riobamba	Chimborazo
6	6	Elena S	Masculino	23	Guayaquil	Tungurahua
7	7	Juan I	Femenino	24	Guayaquil	Tungurahua
8	8	Jose L	Femenino	30	Cuenca	Pichincha
9	9	Luis U	Femenino	26	Guayaquil	Chimborazo
10	10	Elena D	Masculino	22	Ambato	Chimborazo

Showing 1 to 10 of 5,000 entries

Previous 1 2 3 4 5 ... 500 Next

Datos del Excel subidos a MongoDB Atlas

ORGANIZATION Keyla's Org - 2025-12... PROJECT Project 0

Data Explorer

My Queries Data Modeling

CLUSTERS (1)

Search clusters

Cluster0

- Empresa
- admin
- local
- sample_mflix
- universidad
 - estudiantes

estudiantes

Cluster0 > universidad > estudiantes

Documents 3K Aggregations Schema Indexes 1 Validation

Type a query: { field: 'value' } or Generate query Explain Reset Find Options

25 1-25 of 3000

```
_id: ObjectId('695f02a9de1237fc230405b5')
id: 1
nombre: "Maria C"
sexo: "Femenino"
edad: 20
ciudad: "Quito"
provincia: "Pichincha"
talla: 1.65
peso: 63
semestre: "Semestre 3"
asignatura: "Matematica"
notas: 8.22
```

System Status: All Good

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URL:

<https://cloud.mongodb.com/v2/6936c2c6a756b23b6be51e14#/explorer/6936c305a756b23b6be65b55/universidad/estudiantes/find>