



# ESCUELA POLITECNICA NACIONAL

## ESCUELA DE FORMACION DE TECNOLOGOS



### TEMA: Aerolineas

integrantes:

- Luis Oña
- Alisson Viracocha

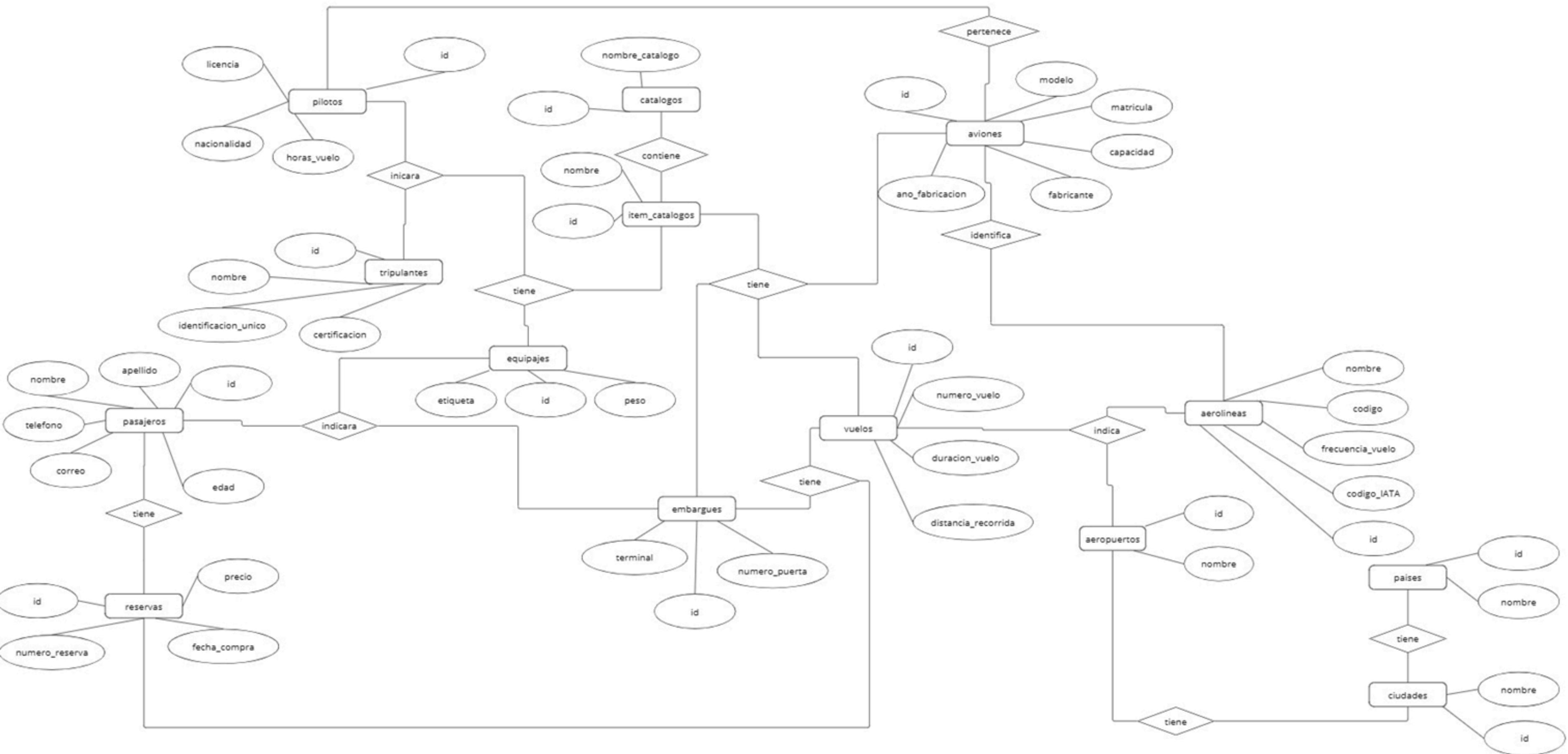


# OBJETIVO

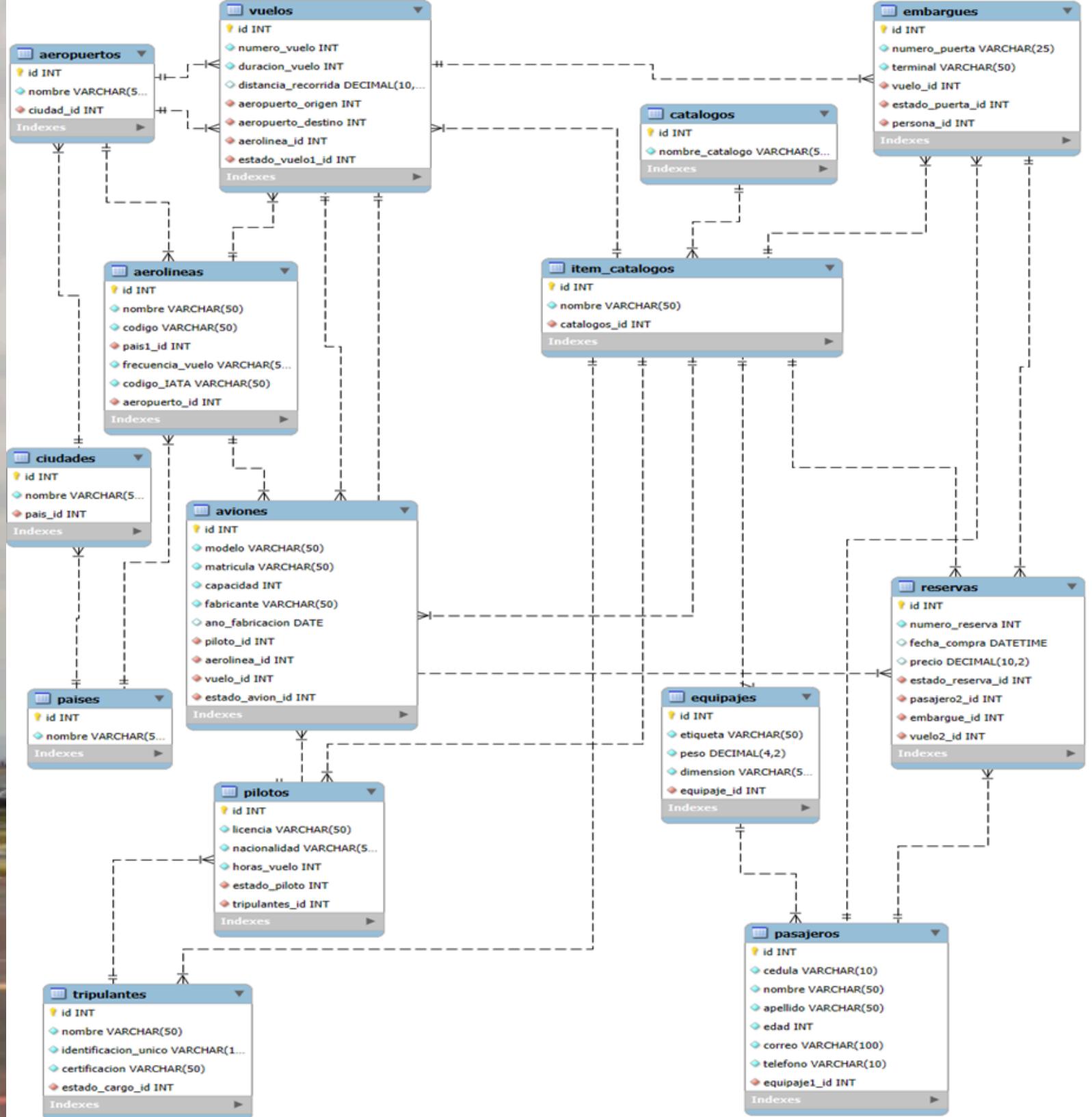
**Gestionar reservas, información de pasajeros, destinos, etc, así también mejorar el rendimiento en consultas y creación de respaldos de diferentes tipos para su mejor optimización**



# MODELO E-R CONCEPTUAL



# MODELO LÓGICO Y FÍSICO.



```
create database aerolineas;  
use aerolineas;
```

```
create table catalogos(  
id int auto_increment primary key,  
nombre_catalogo varchar(50)not null  
);
```

```
create table item_catalogos(  
id int auto_increment primary key,  
nombre varchar(50) not null,  
catalogos_id int not null,  
constraint fk_catalogo foreign key(catalogos_id ) references catalogos(id)  
cascade  
);
```

```
-- drop table item_catalogos  
create table equipajes(  
id int auto_increment primary key,  
etiqueta varchar(50) not null unique,  
peso decimal(4,2)not null,  
dimension varchar(50) not null,  
equipaje_id int not null,  
constraint fk_item foreign key(equipaje_id) references item_catalogos(id)  
cascade  
);
```

# DICTIONARIO

- [vuelos](#)

## aerolineas

| Column name      | DataType    | PK | NN | UQ | BIN | UN | ZF | AI | Default | Comment   |
|------------------|-------------|----|----|----|-----|----|----|----|---------|---|
| id               | INT         | ✓  | ✓  |    |     |    |    |    | ✓       |   |
| nombre           | VARCHAR(50) |    | ✓  |    |     |    |    |    |         | nombre de la aerolinea encargada  |
| codigo           | VARCHAR(50) |    | ✓  |    |     |    |    |    |         | numero unico de la aerolinea para ser identificada  |
| pais1_id         | INT         |    | ✓  |    |     |    |    |    |         | hace referencia de la tabla pais  |
| frecuencia_vuelo | VARCHAR(50) |    | ✓  |    |     |    |    |    |         | indicara si el vuelo es a diario o semanal  |
| codigo_IATA      | VARCHAR(50) |    | ✓  |    |     |    |    |    |         | El codigo IATA (Asociacion Internacional de Transporte Aereo) es un codigo de tres letras que identifica a cada aerolinea en el mundo |
| aeropuerto_id    | INT         |    | ✓  |    |     |    |    |    |         | hace referencia de la tabla aeropuerto  |

## aeropuertos

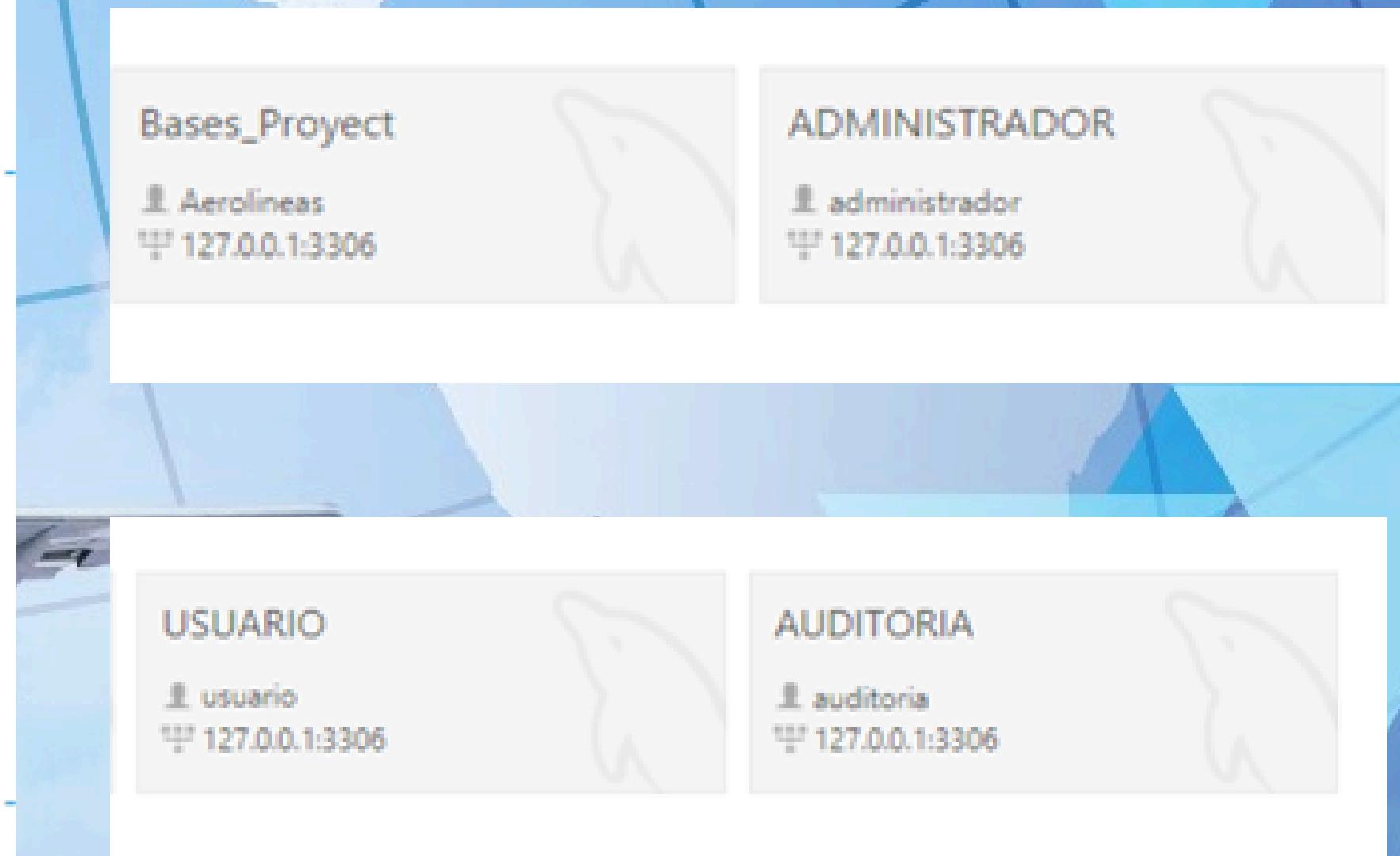
| Column name | DataType    | PK | NN | UQ | BIN | UN | ZF | AI | Default | Comment                         |
|-------------|-------------|----|----|----|-----|----|----|----|---------|---------------------------------|
| id          | INT         | ✓  | ✓  |    |     |    |    |    | ✓       |                                 |
| nombre      | VARCHAR(50) |    | ✓  |    |     |    |    |    |         | nombre del aeropuerto           |
| ciudad_id   | INT         |    | ✓  |    |     |    |    |    |         | referencia de la tabla ciudades |

## aviones

| Column name     | DataType    | PK | NN | UQ | BIN | UN   | ZF | AI | Default | Comment   |
|-----------------|-------------|----|----|----|-----|------|----|----|---------|---|
| id              | INT         | ✓  | ✓  |    |     |      | ✓  |    |         |   |
| modelo          | VARCHAR(50) |    | ✓  |    |     |      |    |    |         | cada avion tiene un modelo en especifico  |
| matricula       | VARCHAR(50) |    | ✓  |    |     |      |    |    |         | todo avion debe tener una matricula para su respectiva identificacion           |
| capacidad       | INT         |    | ✓  |    |     |      |    |    |         | dependera si el avion es de pasajeros, carga o mixta                            |
| fabricante      | VARCHAR(50) |    | ✓  |    |     |      |    |    |         | cada avion esta fabricado por una empresa responsable                           |
| ano_fabricacion | DATE        |    |    |    |     | NULL |    |    |         | indicara la fecha de fabricacion para un futuro tomar acciones correspondientes |
| piloto_id       | INT         |    | ✓  |    |     |      |    |    |         | hace referencia de la ta bla item_catalogos                                     |

# SEGURIDAD, AUDITORÍA Y CONTROL DE ACCESO

```
1 • create user 'Aerolineas'@'localhost';
2 • GRANT ALL PRIVILEGES ON *.* TO 'Aerolineas'@'localhost';
3
4 • SELECT user, host FROM mysql.user;
5 • alter user 'Aerolineas'@'localhost' identified by '1234';
6 --
7      -- CREACION DE USUARIOS--
8 -- se crean los usuarios pero no tienen permiso alguno
9 • create user 'administrador'@'localhost' identified by 'administrador';
10 • create user 'usuario'@'localhost' identified by 'usuario';
11 • create user 'auditoria'@'localhost' identified by 'auditoria';
12
13
14 -- verificar los usuarios creados
15 • SELECT*FROM mysql.user;
16
17 --
18
19 -- dando privilegios a los usuarios creados
20      -- ADMINISTRADOR--
21 -- el administrador tendra todos los privilegio
22 • grant all privileges on aerolineas.* to 'administrador'@'localhost';
23 • flush privileges;
```



# CIFRADO DE DATOS SENSIBLES.

```
96    -- agregamos una nueva tabla
97 • ALTER TABLE pasajeros ADD cedula_encriptado VARBINARY(255);
98 • ALTER TABLE pasajeros ADD cedula_desencriptada VARCHAR(255);
99
100   -- encriptacion de datos
101 • UPDATE pasajeros SET cedula_encriptado = AES_ENCRYPT(cedula, 'encriptado');
102 • UPDATE pasajeros SET cedula_desencriptada = CAST(AES_DECRYPT(cedula_encriptado, 'encriptado') AS CHAR);
103
104   -- verificamos la encriptacion
105 • select*from pasajeros;
106   -- recordadndo
```

| Result Grid |    |            |         |          |      |                          |            |              |                   |                      |
|-------------|----|------------|---------|----------|------|--------------------------|------------|--------------|-------------------|----------------------|
|             | id | cedula     | nombre  | apellido | edad | correo                   | telefono   | equipaje1_id | cedula_encriptado | cedula_desencriptada |
| 1           | 1  | 1234567890 | Mateo   | Torres   | 16   | mateotorres@gmail.com    | 0952647894 | 1            | BLOB              | 1234567890           |
| 2           | 2  | 1736185107 | Ithan   | Camacho  | 28   | ithancamacho@hotmail.com | 0987654321 | 2            | BLOB              | 1736185107           |
| 3           | 3  | 1795195107 | Richard | Soria    | 37   | richardsoria@yahoo.es    | 0987654322 | 3            | BLOB              | 1795195107           |
| 4           | 4  | 1736635219 | Carlos  | Perez    | 65   | carlosperez@hotmail.com  | 0987654323 | 1            | BLOB              | 1736635219           |
| 5           | 5  | 1755195317 | Adrian  | Ramos    | 29   | adrianramos@gmail.com    | 0987654324 | 2            | BLOB              | 1755195317           |
| 6           | 6  | 1726395709 | Adrian  | Cadena   | 33   | adrian123@yahoo.es       | 0987654325 | 3            | BLOB              | 1726395709           |
| 7           | 7  | 1736492203 | Paul    | Cabrera  | 26   | paul_Cabrera@hotmail.com | 0987654326 | 3            | BLOB              | 1736492203           |
| 8           | 8  | 1826152241 | Mireva  | Garcia   | 28   | mireva_Garcia@mail.com   | 0987654327 | 2            | BLOB              | 1826152241           |

# AUDITORIA Y REGISTRO DE EVENTOS

```
1
2 -- verificar si esta encendido
3 • SHOW GLOBAL VARIABLES LIKE 'general_log';
4
5
6 • set global general_log='on';
7
8 • select*from mysql.general_log
```



ingreso\_aerolineas\* tablas\_aerolineas consultas\* Administration - Client Connecti... x

**Bases\_Proyect**

**Client Connections**

| Threads Connected: |                | 12        | Threads Running:  |            | 2    | Threads Created: |        | 13     | Threads Cached:      |  | 1        | Rejected (over limit): |                 | 0        |              |               |
|--------------------|----------------|-----------|-------------------|------------|------|------------------|--------|--------|----------------------|--|----------|------------------------|-----------------|----------|--------------|---------------|
| Total Connections: |                | 110       | Connection Limit: |            | 151  | Aborted Clients: |        | 4      | Aborted Connections: |  | 23       | Errors:                |                 | 0        |              |               |
| Id                 |                | User      | Host              |            | DB   | Command          |        | Time   | State                |  | Threa... | Type                   | Name            | Paren... | Instrumented | Info          |
| 5                  | event_sched... | localhost |                   |            | None |                  | Daemon | 275230 | Waiting on e...      |  | 43       | FOREGROUND             | thread/sql/e... | 1        | YES          | NULL          |
| 7                  | None           | None      |                   |            | None |                  | Daemon | 275230 | Suspending           |  | 45       | FOREGROUND             | thread/sql/c... | 1        | YES          | NULL          |
| 91                 | root           | localhost |                   |            | None |                  | Sleep  | 46     | None                 |  | 131      | FOREGROUND             | thread/sql/o... | 0        | YES          | NULL          |
| 92                 | root           | localhost |                   |            | None |                  | Sleep  | 46     | None                 |  | 132      | FOREGROUND             | thread/sql/o... | 47       | YES          | NULL          |
| 101                | usuario        | localhost |                   |            | None |                  | Sleep  | 246    | None                 |  | 141      | FOREGROUND             | thread/sql/o... | 0        | YES          | NULL          |
| 102                | usuario        | localhost |                   | aerolineas |      |                  | Sleep  | 246    | None                 |  | 142      | FOREGROUND             | thread/sql/o... | 0        | YES          | NULL          |
| 103                | administrador  | localhost |                   |            | None |                  | Sleep  | 196    | None                 |  | 143      | FOREGROUND             | thread/sql/o... | 47       | YES          | NULL          |
| 104                | administrador  | localhost |                   | aerolineas |      |                  | Sleep  | 127    | None                 |  | 144      | FOREGROUND             | thread/sql/o... | 47       | YES          | NULL          |
| 105                | administrador  | localhost |                   |            | None |                  | Sleep  | 43     | None                 |  | 145      | FOREGROUND             | thread/sql/o... | 47       | YES          | NULL          |
| 106                | administrador  | localhost |                   |            | None |                  | Sleep  | 2      | None                 |  | 146      | FOREGROUND             | thread/sql/o... | 47       | YES          | NULL          |
| 107                | Aerolineas     | localhost |                   |            | None |                  | Query  | 0      | executing            |  | 147      | FOREGROUND             | thread/sql/o... | 47       | YES          | SELECT t.PROC |
| 108                | Aerolineas     | localhost |                   |            | None |                  | Sleep  | 3      | None                 |  | 148      | FOREGROUND             | thread/sql/o... | 47       | YES          | NULL          |
| 109                | Aerolineas     | localhost |                   | aerolineas |      |                  | Sleep  | 22     | None                 |  | 149      | FOREGROUND             | thread/sql/o... | 47       | YES          | NULL          |
| 110                | Aerolineas     | localhost |                   | aerolineas |      |                  | Sleep  | 22     | None                 |  | 150      | FOREGROUND             | thread/sql/o... | 0        | YES          | NULL          |

# CREACION DE RESPALDOS COMPLETOS (FULL BACKUPS).

Tables to Export

| Exp...                              | Schema                 |
|-------------------------------------|------------------------|
| <input checked="" type="checkbox"/> | aerolineas             |
| <input type="checkbox"/>            | belleza_spa            |
| <input type="checkbox"/>            | ejercicio_de_prueba    |
| <input type="checkbox"/>            | empresa1               |
| <input type="checkbox"/>            | estudiantes            |
| <input type="checkbox"/>            | funciones              |
| <input type="checkbox"/>            | importando_respalmando |
| <input type="checkbox"/>            | informacion_poo        |

Refresh 15 tables selected

Schema Objects

| Exp...                              | Schema Objects |
|-------------------------------------|----------------|
| <input checked="" type="checkbox"/> | aerolineas     |
| <input checked="" type="checkbox"/> | aeropuertos    |
| <input checked="" type="checkbox"/> | aviones        |
| <input checked="" type="checkbox"/> | catalogos      |
| <input checked="" type="checkbox"/> | ciudades       |
| <input checked="" type="checkbox"/> | embargues      |
| <input checked="" type="checkbox"/> | equipajes      |
| <input checked="" type="checkbox"/> | item_catalogos |

Dump Structure and Data

Bases\_Proyect  
Data Export

Object Selection Export Progress

Export Completed

Status:  
16 of 16 exported.

Log:

```
08:51:26 Dumping aerolineas (aviones)
Running: mysqldump.exe --defaults-file="C:\Users\JORGE\AppData\Local\Temp\tmpy0l6dfpk.cnf" --host=127.0.0.1 --port=3306 --skip-triggers "aerolineas" "aviones"
08:51:26 Dumping aerolineas (item_catalogos)
Running: mysqldump.exe --defaults-file="C:\Users\JORGE\AppData\Local\Temp\tmpa5e0ht7_.cnf" --host=127.0.0.1 --port=3306 --skip-triggers "aerolineas" "item_catalogos"
08:51:26 Dumping aerolineas (embargues)
Running: mysqldump.exe --defaults-file="C:\Users\JORGE\AppData\Local\Temp\tmp4xctl_24.cnf" --host=127.0.0.1 --port=3306 --skip-triggers "aerolineas" "embargues"
08:51:26 Dumping aerolineas (paises)
Running: mysqldump.exe --defaults-file="C:\Users\JORGE\AppData\Local\Temp\tmp4zdmrv8i.cnf" --host=127.0.0.1 --port=3306 --skip-triggers "aerolineas" "paises"
08:51:26 Dumping aerolineas (vuelos)
Running: mysqldump.exe --defaults-file="C:\Users\JORGE\AppData\Local\Temp\tmpc5e1o516.cnf" --host=127.0.0.1 --port=3306 --skip-triggers "aerolineas" "vuelos"
08:51:26 Dumping aerolineas views and/or routines and/or events
Running: mysqldump.exe --defaults-file="C:\Users\JORGE\AppData\Local\Temp\tmpr0sffe0h.cnf" --host=127.0.0.1 --port=3306 --skip-triggers --no-data --no-create-db --no-create-info --routines "aerolineas"
08:51:26 Export of C:\Users\JORGE\Desktop\Proyecto BDD\auditoria has finished
```

Start back up > Desktop > Proyecto BDD > auditoria

| Name                      | Date modified      | Type          | Size |
|---------------------------|--------------------|---------------|------|
| aerolineas_aerolineas     | 2025-02-03 8:51 AM | SQL Text File | 3 KB |
| aerolineas_aeropuertos    | 2025-02-03 8:51 AM | SQL Text File | 3 KB |
| aerolineas_aviones        | 2025-02-03 8:51 AM | SQL Text File | 4 KB |
| aerolineas_catalogos      | 2025-02-03 8:51 AM | SQL Text File | 3 KB |
| aerolineas_ciudades       | 2025-02-03 8:51 AM | SQL Text File | 3 KB |
| aerolineas_embargues      | 2025-02-03 8:51 AM | SQL Text File | 3 KB |
| aerolineas_equipajes      | 2025-02-03 8:51 AM | SQL Text File | 3 KB |
| aerolineas_item_catalogos | 2025-02-03 8:51 AM | SQL Text File | 3 KB |
| aerolineas_paises         | 2025-02-03 8:51 AM | SQL Text File | 2 KB |
| aerolineas_pasajeros      | 2025-02-03 8:51 AM | SQL Text File | 6 KB |
| aerolineas_pilotos        | 2025-02-03 8:51 AM | SQL Text File | 3 KB |
| aerolineas_reservas       | 2025-02-03 8:51 AM | SQL Text File | 4 KB |
| aerolineas_routines       | 2025-02-03 8:51 AM | SQL Text File | 2 KB |
| aerolineas_servidor       | 2025-02-03 8:51 AM | SQL Text File | 2 KB |
| aerolineas_tripulantes    | 2025-02-03 8:51 AM | SQL Text File | 3 KB |
| aerolineas_vuelos         | 2025-02-03 8:51 AM | SQL Text File | 3 KB |

# CREACION DE RESPALDOS INCREMENTABLES .

New Task Wizard - Step 4 of 8: Specify Backup Type

**HANDY BACKUP**

- ✓ files and folders
- ✓ email messages
- ✓ databases
- ✓ cloud storages



Specify backup type

Full

Incremental

Mixed incremental

Differential

Mixed differential

Store versioned backup

Versions rotation settings...

Comparison settings:

Compare files based on: File size, Modification time

Error handling:

Stop on critical errors, ignore non-critical errors (recommended)

< Back Next >

Select where to store your backup

Computer

Network

OneDrive

OneDrive for Business

Google Drive

Dropbox

S3 Cloud

FTP

FTPS

SFTP

WebDAV

Storage Folder: C:\Users\JORGE\Desktop\Proyecto BDD\backup incremental

Search

Handy Backup 8.5.4 | 64-bit | unregistered version will expire in 29 days, 23 hours

File View Actions Service Language Help

+ NEW START STOP RESTORE DELETE SETTINGS RECOVERY ADMIN REPORTS REGISTER BUY NOW HandyBackup.net

| Nº | Task name                       | Task type | Last run time | Next run time | Progress | Status  |
|----|---------------------------------|-----------|---------------|---------------|----------|---------|
| 3  | Backup to Computer, 04 Feb 2025 | Backup    | 2025-02-0...  |               | 100%     | Success |

STATUS:>20:40:27 Errors ignored : 0  
STATUS:>20:40:27 Files backed up : 3  
STATUS:>20:40:27 Remote directories created : 0  
WARNING:>20:40:27 You are using an unregistered version. To learn about registration, please visit <https://www.handybackup.net/manual/registration>  
STATUS:>20:40:27 Backup operation finished on 2025-02-04 20:40:27  
STATUS:>20:40:27 Got questions on the info in this log? Ask us! [https://www.handybackup.net/support.shtml?utm\\_status=success#feedback](https://www.handybackup.net/support.shtml?utm_status=success#feedback)  
2025-02-04 20:40:27 SESSION ENDED

| Name                            | Date modified      | Type        |
|---------------------------------|--------------------|-------------|
| BACKUP incremental              | 2025-02-04 8:54 PM | File folder |
| Backup to Computer, 04 Feb 2025 | 2025-02-04 8:40 PM | File folder |

# CREACION DE RESPALDOS EN CALIENTES (HOT BACKUPS) .

New Task Wizard - Step 4 of 8: Specify Backup Type

**HANDY BACKUP**

- ✓ files and folders
- ✓ email messages
- ✓ databases
- ✓ cloud storages



Specify backup type

Full

Incremental

Mixed incremental

Differential

Mixed differential

Store versioned backup

Versions rotation settings...

Comparison settings:

Compare files based on: File size, Modification time

Error handling:

Stop on critical errors, ignore non-critical errors (recommended)

< Back Next >

Select where to store your backup

Computer

Network

OneDrive

OneDrive for Business

Google Drive

Dropbox

S3 Cloud

FTP

FTPS

SFTP

WebDAV

Storage Folder: C:\Users\JORGE\Desktop\Proyecto BDD\backup incremental

Search

Handy Backup 8.5.4 | 64-bit | unregistered version will expire in 29 days, 23 hours

File View Actions Service Language Help

+ START STOP RESTORE DELETE SETTINGS RECOVERY ADMIN REPORTS REGISTER BUY NOW HandyBackup.net

| Nº | Task name                       | Task type | Last run time | Next run time | Progress | Status  |
|----|---------------------------------|-----------|---------------|---------------|----------|---------|
| 3  | Backup to Computer, 04 Feb 2025 | Backup    | 2025-02-0...  |               | 100%     | Success |

STATUS:>20:40:27 Errors ignored : 0  
STATUS:>20:40:27 Files backed up : 3  
STATUS:>20:40:27 Remote directories created : 0  
WARNING:>20:40:27 You are using an unregistered version. To learn about registration, please visit <https://www.handybackup.net/manual/registration>  
STATUS:>20:40:27 Backup operation finished on 2025-02-04 20:40:27  
STATUS:>20:40:27 Got questions on the info in this log? Ask us! [https://www.handybackup.net/support.shtml?utm\\_status=success#feedback](https://www.handybackup.net/support.shtml?utm_status=success#feedback)  
2025-02-04 20:40:27 SESSION ENDED

| Name                            | Date modified      | Type        |
|---------------------------------|--------------------|-------------|
| BACKUP incremental              | 2025-02-04 8:54 PM | File folder |
| Backup to Computer, 04 Feb 2025 | 2025-02-04 8:40 PM | File folder |

# OPTIMIZACIÓN Y RENDIMIENTO DE CONSULTAS

```
0 ---  
1          -- CREANDO INDEX  
2 • use aerolineas;  
3 • CREATE INDEX index_nombre ON pasajeros (nombre);  
4  
5          -- verificando  
6 • SHOW INDEX FROM pasajeros WHERE Key_name = 'index_nombre';
```

| Table     | Non_unique | Key_name     | Seq_in_index | Column_name | Collation | Cardinality | Sub_part | Packed | Null | Index_type |
|-----------|------------|--------------|--------------|-------------|-----------|-------------|----------|--------|------|------------|
| pasajeros | 1          | index_nombre | 1            | nombre      | A         | 15          | NULL     | NULL   |      | BTREE      |

```
7  
8 • show index from pasajeros
```

| Result Grid |            | Filter Rows: |              | Export:      |           | Wrap Cell Content: |          | Actions |      |            |         |
|-------------|------------|--------------|--------------|--------------|-----------|--------------------|----------|---------|------|------------|---------|
| Table       | Non_unique | Key_name     | Seq_in_index | Column_name  | Collation | Cardinality        | Sub_part | Packed  | Null | Index_type | Comment |
| pasajeros   | 0          | PRIMARY      | 1            | id           | A         | 23                 | NULL     | NULL    | NULL | BTREE      |         |
| pasajeros   | 0          | correo       | 1            | correo       | A         | 23                 | NULL     | NULL    | NULL | BTREE      |         |
| pasajeros   | 1          | fk_equipa    | 1            | equipaje1_id | A         | 3                  | NULL     | NULL    | NULL | BTREE      |         |
| pasajeros   | 1          | index_nombre | 1            | nombre       | A         | 15                 | NULL     | NULL    | NULL | BTREE      |         |

```
300      -- consultando
301 •   SELECT * FROM pasajeros WHERE nombre = 'Adriana'
302
```

| Result Grid |      |            |        |          |      |                          |
|-------------|------|------------|--------|----------|------|--------------------------|
|             | id   | cedula     | nombre | apellido | edad | correo                   |
| ▶           | 5    | 1755195317 | Adrian | Ramos    | 29   | adrianramos@gmail.com    |
|             | 6    | 1726395709 | Adrian | Cadena   | 33   | adrian123@yahoo.es       |
|             | 19   | 6000263486 | Adrian | Cadena   | 20   | adriancadena963@yahoo.es |
|             | HULL | NULL       | NULL   | NULL     | NULL | NULL                     |

# PARTICIONAMIENTO DE TABLAS.

```
alter table pasajeros partition by range (id) (
    partition particion_1 values less than (5),
    partition particion_2 values less than (10),
    partition particion_3 values less than (15),
    partition particion_4 values less than (21)
);
```

Result Grid | Filter Rows:  | Edit: | Export/Import: | Wrap Cell Content:

|   | <a href="#">id</a> | <a href="#">cedula</a> | <a href="#">nombre</a> | <a href="#">apellido</a> | <a href="#">edad</a> | <a href="#">correo</a>   | <a href="#">telefono</a> | <a href="#">avion_id</a> | <a href="#">cedula encriptada</a>    |
|---|--------------------|------------------------|------------------------|--------------------------|----------------------|--------------------------|--------------------------|--------------------------|--------------------------------------|
| ▶ | 1                  | 1234567890             | Mateo                  | Torres                   | 16                   | mateotorres@gmail.com    | 0952647894               | 1                        | Import records from an external file |
|   | 2                  | 1736185107             | Ithan                  | Camacho                  | 28                   | ithancamacho@hotmail.com | 0987654321               | 2                        | <input type="button" value="NULL"/>  |
|   | 3                  | 1795195107             | Richard                | Soria                    | 37                   | richardsoria@yahoo.es    | 0987654322               | 3                        | <input type="button" value="NULL"/>  |
|   | 4                  | 1736635219             | Carlos                 | Perez                    | 65                   | carlosperez@hotmail.com  | 0987654323               | 1                        | <input type="button" value="NULL"/>  |
|   | 5                  | 1755195317             | Adrian                 | Ramos                    | 29                   | adrianramos@gmail.com    | 0987654324               | 2                        | <input type="button" value="NULL"/>  |

# PROCEDIMIENTOS ALMACENADOS, VISTAS Y TRIGGERS

Result Grid | Filter Rows: Edit:

|   | id   | numero_reserva | fecha_compra        | precio |  |
|---|------|----------------|---------------------|--------|--|
| ▶ | 1    | 3              | 2025-01-30 22:04:13 | 420.75 |  |
|   | 2    | 4              | 2025-01-30 22:04:13 | 400.75 |  |
|   | 3    | 2              | 2025-01-30 22:04:13 | 420.75 |  |
|   | 4    | 1              | 2025-01-30 22:04:13 | 200.03 |  |
|   | 5    | 6              | 2025-01-30 22:04:13 | 850.00 |  |
|   | 6    | 5              | 2025-01-30 22:04:13 | 300.89 |  |
| ▶ | 7    | 3              | 2025-01-30 22:04:13 | 978.35 |  |
|   | HULL | NULL           | HULL                | HULL   |  |
| ● |      |                |                     |        |  |

Result Grid | Filter Rows: Edit:

|   | id   | numero_reserva | fecha_compra        | precio  |  |
|---|------|----------------|---------------------|---------|--|
| ▶ | 1    | 3              | 2025-01-30 22:04:13 | 420.75  |  |
|   | 2    | 4              | 2025-01-30 22:04:13 | 400.75  |  |
|   | 3    | 2              | 2025-01-30 22:04:13 | 420.75  |  |
|   | 4    | 1              | 2025-01-30 22:04:13 | 200.03  |  |
|   | 5    | 6              | 2025-01-30 22:04:13 | 850.00  |  |
|   | 6    | 5              | 2025-01-30 22:04:13 | 300.89  |  |
| ▶ | 7    | 3              | 2025-01-30 22:04:13 | 1615.75 |  |
|   | HULL | NULL           | HULL                | HULL    |  |
| ● |      |                |                     |         |  |

```
51
52      delimiter //
53  •  create procedure act_precio(in vuelos_id int, in porcentaje decimal(10,2))
54      begin
55          update reservas
56          set precio=round(precio*(1 + porcentaje/100),2)
57          where vuelo2_id=vuelos_id;
58      end //
59      delimiter ;
```

# PROCEDIMIENTOS ALMACENADOS, VISTAS Y TRIGGERS

```
46 • alter view informacion as
47     select ae.nombre as aerolinea,ae.codigo,
48     p.nombre as pais_origen, ae.frecuencia_vuelo,
49     a.nombre as aeropuerto,av.modelo,av.capacidad,
50     ic.nombre as estado
51     from aerolineas as ae
52     inner join paises as p on p.id=ae.pais1_id
53     inner join aeropuertos a on a.id=ae.aeropuerto_id
54     inner join aviones as av on ae.id=av.id
55     inner join item_catalogos as ic on ic.id=estado_avion_id;
56 • select*from informacion;
```

Result Grid | Filter Rows:  Export: Wrap Cell Content:

| aerolinea       | codigo    | pais_origen   | frecuencia_vuelo | aeropuerto                                | modelo                | capacidad | estado             |
|-----------------|-----------|---------------|------------------|---|-----------------------|-----------|--------------------|
| Tame            | ECU789E-0 | Ecuador       | diario           | aeropuerto internacional Mariscal Sucre   | Airbus A320           | 220       | mantenimiento      |
| VivaAerobus     | MEX789X-0 | Mexico        | diario           | aeropuerto internacional Ciudad de Mexico | Boeing 737            | 600       | fuerza de servicio |
| Air France      | LHR233R-0 | Francia       | semanal          | Aeropuerto de Heathrow                    | Boeing 777            | 550       | activo             |
| AirAsia         | PKX569X-0 | China         | semanal          | Aeropuerto Internacional de Pekin-Daxing  | Airbus A350           | 350       | activo             |
| Asiana Airlines | ICN000N-0 | Corea del Sur | semanal          | Aeropuerto Internacional de Incheon       | Boeing 787 Dreamliner | 400       | mantenimiento      |

# PROCEDIMIENTOS ALMACENADOS, VISTAS Y TRIGGERS

```
• create table auditoria_pasajeros(
    id int auto_increment primary key,
    cedula varchar(10) ,
    nombre varchar(50) ,
    apellido varchar(50) ,
    edad int ,
    correo varchar(100) ,
    telefono varchar(10) ,
    equipaje1_id int,
    fecha_eliminacion timestamp default current_timestamp
);

• delimiter $$

• create trigger before_delete_pasajeros
before delete on pasajeros
for each row
begin
    insert into auditoria_pasajeros(cedula,nombre,apellido,edad,correo,telefono,Equipaje1_id)
    values(old.cedula,old.nombre,old.apellido,old.edad,old.correo,old.telefono,old.equipaje1_id);
end $$

• delimiter ;
```

125 • select\*from auditoria\_pasajeros;

126

Result Grid | Filter Rows: | Edit: | Export/Import: | Wrap Cell Content: |

|   | id   | cedula     | nombre | apellido | edad | correo                      | telefono   | equipaje1_id | fecha_eliminacion   |
|---|------|------------|--------|----------|------|-----------------------------|------------|--------------|---------------------|
| ▶ | 1    | 7716619596 | Miguel | Cadena   | 23   | miguelcadena123@hotmail.com | 0988654320 | 1            | 2025-02-04 18:08:25 |
| * | NULL | NULL       | NULL   | NULL     | NULL | NULL                        | NULL       | NULL         | NULL                |

Result Grid | Filter Rows: |

|  | id   | cedula     | nombre | apellido  |
|--|------|------------|--------|-----------|
|  | 14   | 3342166849 | Juan   | Cabrera   |
|  | 15   | 1715353271 | Lucia  | Gonzalez  |
|  | 16   | 0052717064 | Miguel | Astudillo |
|  | 17   | 5447931325 | Miguel | Lopez     |
|  | 18   | 1372137650 | Adrian | Lopez     |
|  | 19   | 6000263486 | Adrian | Cadena    |
|  | 20   | 8840211992 | Sofia  | Cabrera   |
|  | NULL | NULL       | NULL   | NULL      |

# MONITOREO Y OPTIMIZACIÓN DE RECURSOS

130 • SHOW PROCESSLIST;

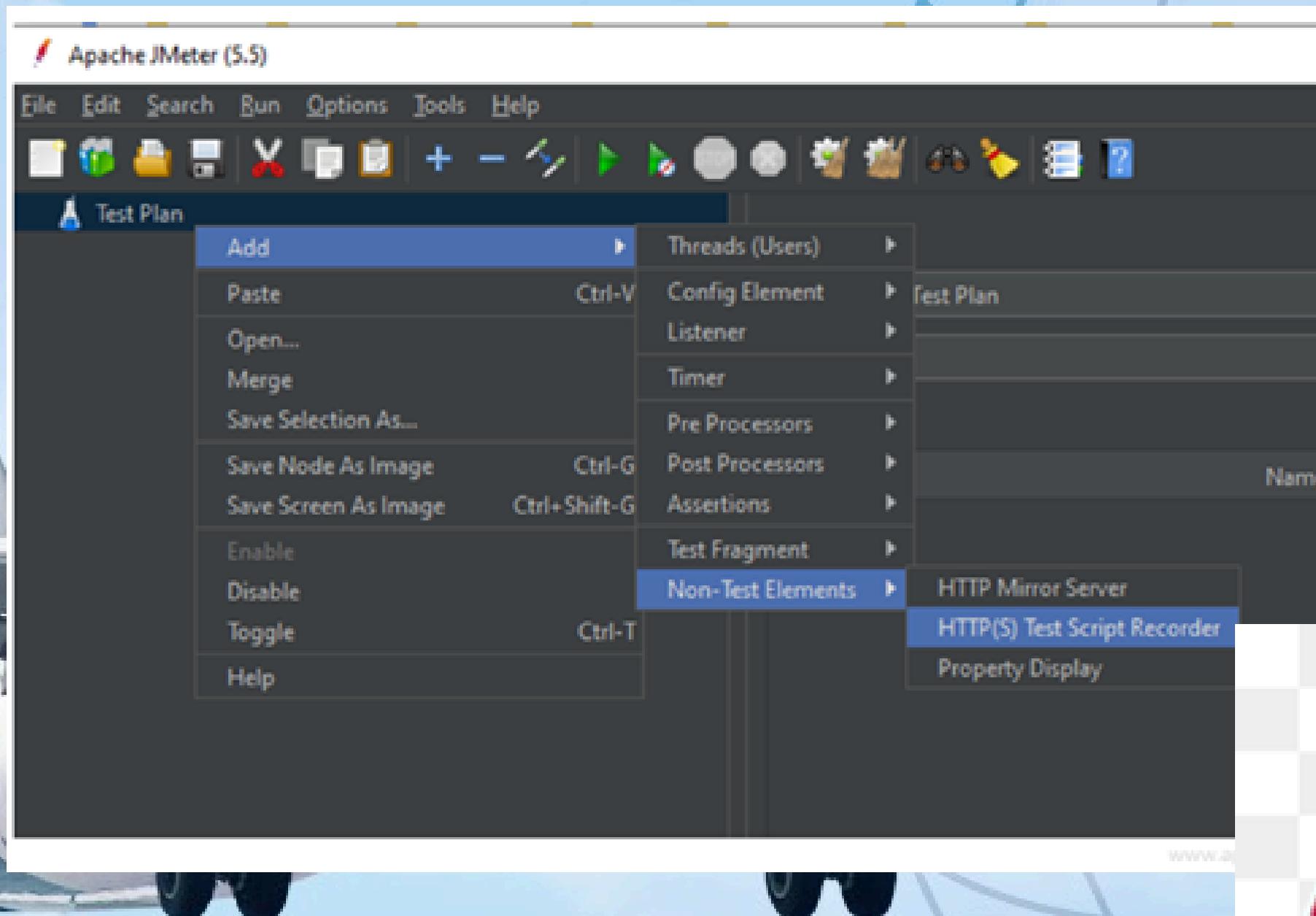
|   | <b>Id</b> | User            | Host            | db         | Command | Time   | State                  | Info             |
|---|-----------|-----------------|-----------------|------------|---------|--------|------------------------|------------------|
| ▶ | 5         | event_scheduler | localhost       | NULL       | Daemon  | 411926 | Waiting on empty queue | NULL             |
|   | 185       | root            | localhost:60049 | NULL       | Sleep   | 56     |                        | NULL             |
|   | 186       | root            | localhost:60050 | aerolineas | Sleep   | 56     |                        | NULL             |
|   | 188       | Aerolineas      | localhost:60064 | NULL       | Sleep   | 29     |                        | NULL             |
|   | 189       | Aerolineas      | localhost:60065 | aerolineas | Query   | 0      | init                   | SHOW PROCESSLIST |

131 • SHOW FULL PROCESSLIST;

132

|   | <b>Id</b> | User            | Host            | db         | Command | Time   | State                  | Info                  |
|---|-----------|-----------------|-----------------|------------|---------|--------|------------------------|-----------------------|
| ▶ | 5         | event_scheduler | localhost       | NULL       | Daemon  | 412305 | Waiting on empty queue | NULL                  |
|   | 185       | root            | localhost:60049 | NULL       | Sleep   | 435    |                        | NULL                  |
|   | 186       | root            | localhost:60050 | aerolineas | Sleep   | 435    |                        | NULL                  |
|   | 188       | Aerolineas      | localhost:60064 | NULL       | Sleep   | 136    |                        | NULL                  |
|   | 189       | Aerolineas      | localhost:60065 | aerolineas | Query   | 0      | init                   | SHOW FULL PROCESSLIST |

# PRUEBAS DE CARGA.



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luisona5

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Current repository PROYECTO\_BASES

Current branch main

Fetch origin Last fetched 2 minutes ago

Changes 5 History Diccionario\Diccionario-Aerolineas

5 changed files

Diccionario\Diccionario-Aerolineas +

modelado\ER\_conceptual.jpg +

modelado\ER\_fisico.png +

modelados\modelo\_ER\_fisico.pdf +

modelados\Modelo\_ER\_logico.png +

| ✓ | ✓ | 1  | @@ -0,0 +1,1297 @@   |
|---|---|----|--|
| ✓ | ✓ | 2  | + <!DOCTYPE html>  |
| ✓ | ✓ | 3  | + <html>   |
| ✓ | ✓ | 4  | + <head>   |
| ✓ | ✓ | 5  | + <meta charset="UTF-8" />   |
| ✓ | ✓ | 6  | + <meta name="author" content="WB DataDic" />                      |
| ✓ | ✓ | 7  | + <meta name="description" content="aerolineas Data Dictionary" /> |
| ✓ | ✓ | 8  | + <title>aerolineas Data Dictionary</title>                        |
| ✓ | ✓ | 9  | + <style type="text/css">  |
| ✓ | ✓ | 10 | + table{ width: 100%;}   |

## Activity

All branches

All activity

### scripts

luisona5 pushed 1 commit to main · c10ce78...70ae

### modelado,diccionario

luisona5 pushed 1 commit to main · 3efe966...c10c

### cronograma

luisona5 pushed 1 commit to main · 8512b84...3efe

### Initial commit

luisona5 created main · 8512b84 · 1 hour ago

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