PRACTICA SQL - MORALES RAMIRO - PARTE 1,2,3,4

SCRIPT SQL REPO GITHUB =

https://github.com/RamiroMoralesdev/codesUTN/blob/main/Bases%20de%20Datos%201/PRACTICA-SQL/gestionacademica.sql

Replica DB PDF 1

TABLA CARRERAS

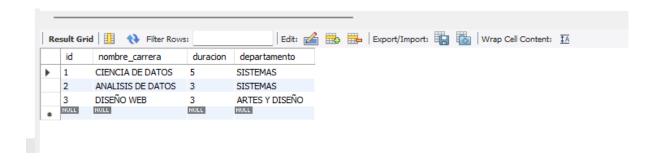


TABLA ALUMNOS

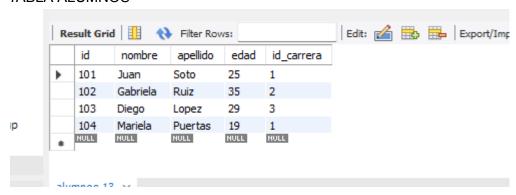
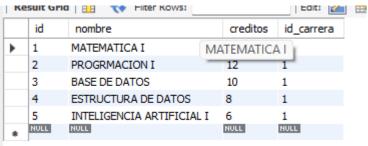


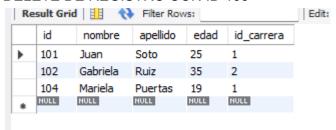
TABLA ASIGNATURAS



UPDATE DE CREDITOS EN BASES DE DATOS I



DELETE DE REGISTRO CON ID 103



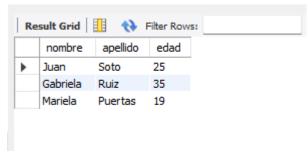
DELETE DE REGISTROS QUE COINCIDEN CON CONDICION CREDITOS



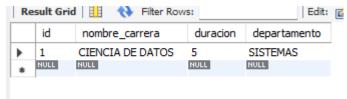
DELETE REGISTROS DE UNA TABLA



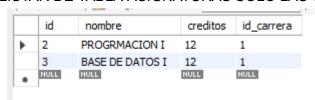
TRAER TODOS LOS REGISTROS MENOS == "DIEGO"



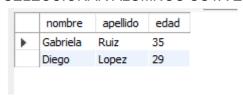
LISTAR DE TABLA CARRERA SOLO CARRERAS QUE TENGA 5 ANIOS DE DURACION



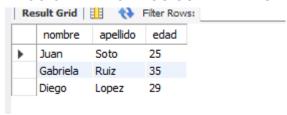
LISTAR DE TABLA ASIGNATURAS SOLO LAS QUE TIENEN CREDITOS = 12



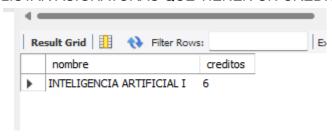
SELECCIONAR ALUMNOS CUYA EDAD SEA MAYOR A 25



SELECCIONAR ALUMNOS CUYA EDAD SEA MAYOR O IGUAL A 25



LISTAR ASIGNATURAS QUE TIENEN UN CREDITO MENOR A 8



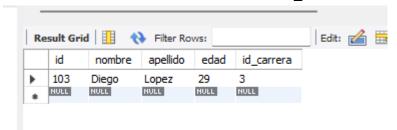
LISTAR ASIGNATURAS QUE TIENEN UN CREDITO MENOR O IGUAL A 8



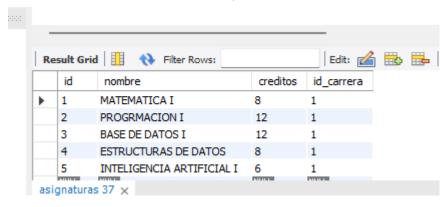
LISTAR ASIGNATURAS CON CREDITO DISTINTO A 8



SELECCIONAR TODOS ALUMNOS CON ID_CARRERA =3



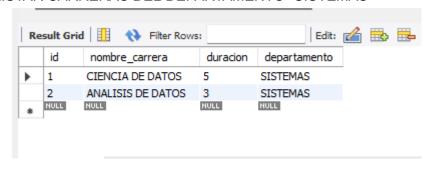
SELECCIONAR ASIGNATURAS QUE TENGAS > 5 CREDITOS



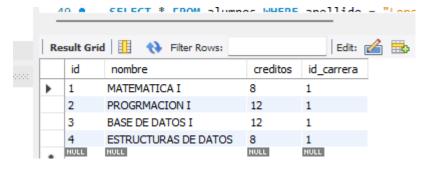
SELECCIONAR ALUMNOS < 21



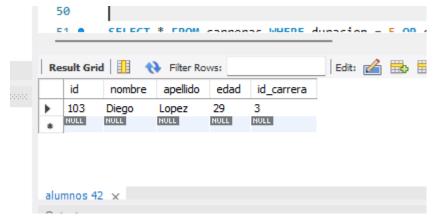
LISTAR CARRERAS DEL DEPARTAMENTO "SISTEMAS"



LISTAR ASIGNATURAS DE LA CARRERA ID 1 Y CON AL MENOS 8 CREDITOS



OBTENER ALUMNOS APELLIDO == LOPEZ

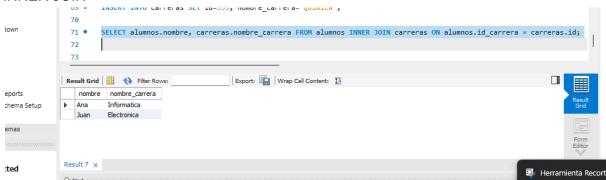


SELECCIONAR CARRERAS CUYA DUR = 5 OR DEPARTAMENTO = ARTES Y DISENO

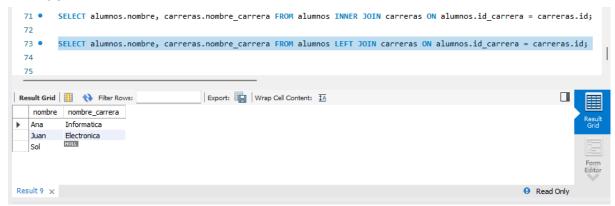


JOINS PDF 2

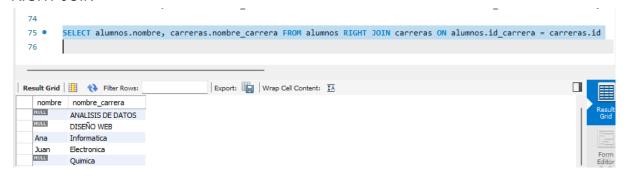
INNER JOIN



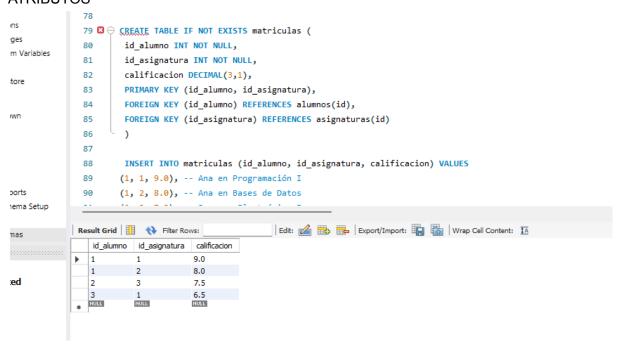
LEFT JOIN



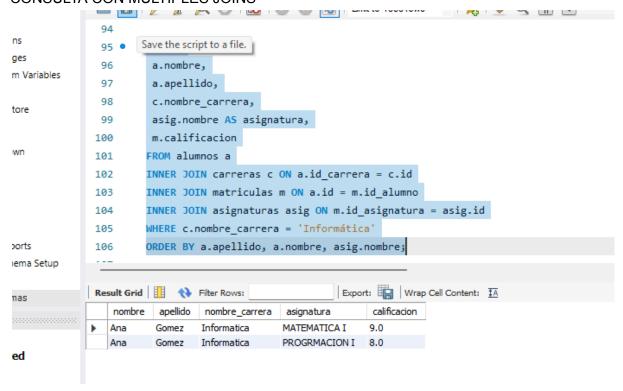
RIGHT JOIN



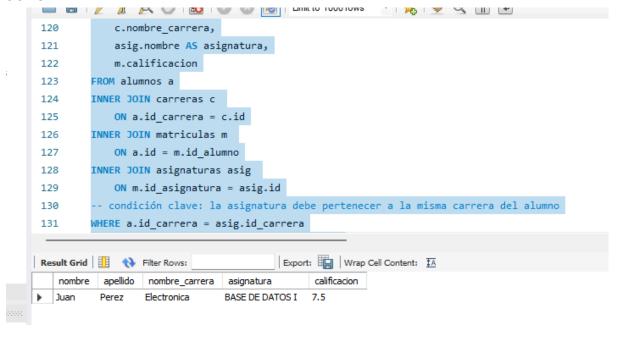
CREACION E INSERCION DE LA TABLA MATRICULAS CON SUS REPECTIVOS ATRIBUTOS



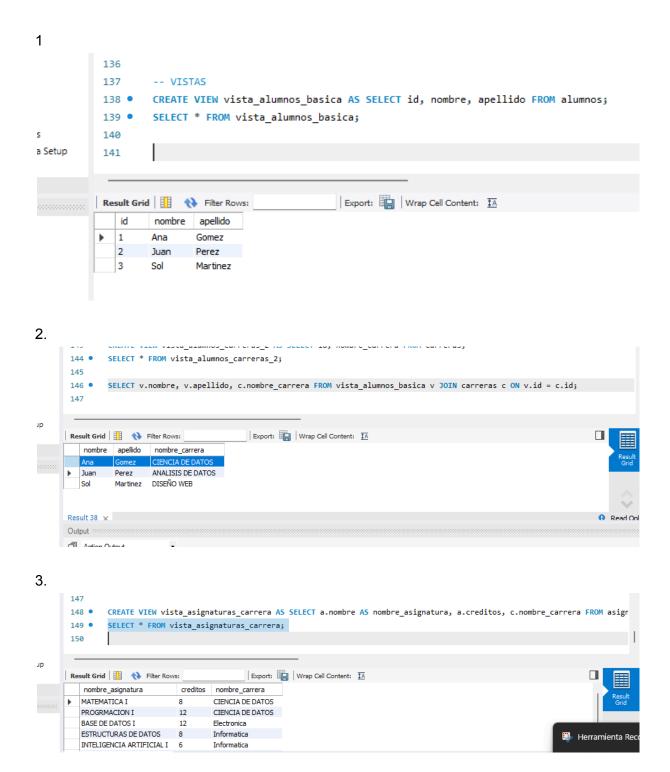
CONSULTA CON MULTIPLES JOINS



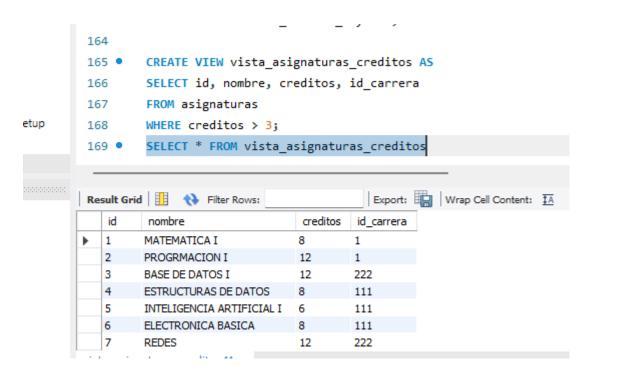
CONSULTA ALUMNOS SOLO SI LA ASIG PERTENECE A LA MISMA CARRERA QUE CURSA



PARTE 3 - VISTAS



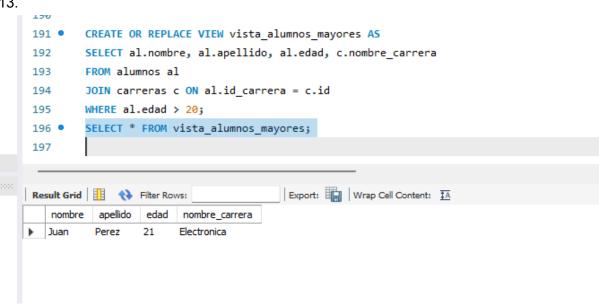


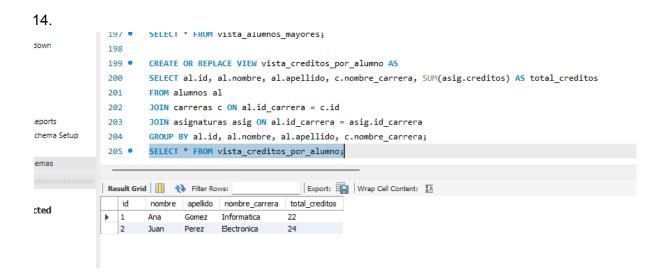


```
10.
     1/0
              CREATE OR REPLACE VIEW vista alumnos basica AS
     171 •
              SELECT id, nombre, apellido, edad
     172
     173
              FROM alumnos;
              SELECT * FROM vista_alumnos_basica;
     174 •
     175
    Result Grid
                                                Export: Wrap Cell
                    Filter Rows:
              nombre
                      apellido
              Ana
       1
                      Gomez
       2
              Juan
                      Perez
       3
                      Martinez
              Sol
11.
71 •
        CREATE OR REPLACE VIEW vista_asignaturas_credito_5 AS
72
        SELECT a.nombre, a.creditos, c.nombre_carrera
        FROM asignaturas a
73
        JOIN carreras c ON a.id_carrera = c.id
74
        WHERE a.creditos > 5;
         SELECT * FROM vista_asignaturas_credito_5;
76 •
77
                                          Export: Wrap Cell Content: IA
 esult Grid 🔠 🚷 Filter Rows:
  nombre
                          creditos
  MATEMATICA I
                          8
  PROGRMACION I
                          12
  BASE DE DATOS I
                          12
  ESTRUCTURAS DE DATOS
  INTELIGENCIA ARTIFICIAL I
  ELECTRONICA BASICA
  REDES
sta_asignaturas_credito_545 🗶
```

```
12.
```

```
183
         CREATE OR REPLACE VIEW vista asignaturas carrera AS
184 •
185
         SELECT a.nombre AS nombre_asignatura, a.creditos, c.nombre_carrera
         FROM asignaturas a
186
         JOIN carreras c ON a.id_carrera = c.id
187
         WHERE a.creditos > 3;
188
         SELECT * FROM vista_asignaturas_carrera;
189 •
190
Export: Wrap Cell Content: IA
   nombre_asignatura
                           creditos
                                   nombre_carrera
  MATEMATICA I
                          8
                                   CIENCIA DE DATOS
   PROGRMACION I
                          12
                                   CIENCIA DE DATOS
   BASE DE DATOS I
                          12
                                  Electronica
   ESTRUCTURAS DE DATOS
                                  Informatica
                                  Informatica
   INTELIGENCIA ARTIFICIAL I
                          6
   ELECTRONICA BASICA
                          8
                                  Informatica
   REDES
                                  Electronica
                          12
```





PARTE 4 - SUBCONSULTAS

```
1.
207
208 🚻
       ---SUBCONSULTAS
209
        SELECT nombre, apellido
210
211
        FROM alumnos
        WHERE edad < (SELECT AVG(edad) FROM alumnos);
212
213
Export: Wrap Cell Content:
  nombre apellido
Ana
         Gomez
```

```
214
215 •
        SELECT id, nombre_carrera
216
        FROM carreras c
217
     SELECT 1
218
           FROM asignaturas a
219
           WHERE a.id_carrera = c.id
220
221
        );
222
                                     Edit:
nombre_carrera
        ANALISIS DE DATOS
       DISEÑO WEB
  3
  333
       Quimica
  NULL
222
223 •
       SELECT departamento, SUM(duracion) AS duracion_total
       FROM carreras
224
       GROUP BY departamento;
225
226
227
                                    Export: Wrap Cell Content: 17
departamento
               duracion_total
  SISTEMAS
               8
  ARTES Y DISEÑO
              3
               NULL
  NULL
```

```
224
        FROM carreras
        GROUP BY departamento;
225
226
227 •
         SELECT c.nombre_carrera,
228
                (SELECT COUNT(*)
                FROM alumnos a
229
                WHERE a.id_carrera = c.id) AS cantidad_alumnos
230
         FROM carreras c;
231
232
233
                                         Export: Wrap Cell Content: IA
cantidad_alumnos
   nombre_carrera
  CIENCIA DE DATOS
  ANALISIS DE DATOS 0
  DISEÑO WEB
  Informatica
  Electronica
  Quimica
                   0
```

5. 232 233 • SELECT departamento, COUNT(*) AS cantidad_carreras FROM carreras 234 GROUP BY departamento; 235 236 237 238 239 Export: Wrap Cell Content: IA Result Grid Filter Rows: departamento cantidad_carreras SISTEMAS ARTES Y DISEÑO 1 NULL

```
6.
36
37
       SELECT al.nombre, al.apellido
38 •
       FROM alumnos al
39

→ WHERE (SELECT SUM(asig.creditos)

10
             FROM asignaturas asig
1
             WHERE asig.id_carrera = al.id_carrera) > 10;
12
ŀ3
14
       SELECT nombre, apellido
                                      Export: Wrap Cell Content: IA
sult Grid 🔢 🚷 Filter Rows:
 nombre
         apellido
 Ana
        Gomez
 Juan
        Perez
7.
          SELECT nombre, apellido
 245 •
 246
          FROM alumnos al

→ WHERE al.id_carrera NOT IN (
 247
 248
              SELECT id
              FROM carreras
 249
              WHERE departamento = 'ARTES Y DISEÑO'
 250
 251
          );
 252
 253
          SELECT nombre
 254 •
 255
          FROM asignaturas

→ WHERE id_carrera IN (
 256
              SELECT id carrera
 257
              FROM alumnos
 258
              WHERE edad = (SELECT MIN(edad) FROM alumnos)
 259
                                          Export: Wrap Cell Content:
 apellido
    nombre
    Ana
            Gomez
```

Juan

Perez

```
253
        SELECT nombre
254 •
        FROM asignaturas
255

→ WHERE id_carrera IN (
256
           SELECT id_carrera
257
            FROM alumnos
258
            WHERE edad = (SELECT MIN(edad) FROM alumnos)
259
                                      Export: Wrap Cell Content:
nombre
  ESTRUCTURAS DE DATOS
  INTELIGENCIA ARTIFICIAL I
  ELECTRONICA BASICA
```