



# **UNIVERSIDAD NACIONAL AUTÓNOMA DE MÉXICO**

## **FACULTAD DE INGENIERÍA**

**Semestre 2013-1**

**Bases de Datos**

**Proyecto Final**

**Equipo 1**

**Integrantes:**

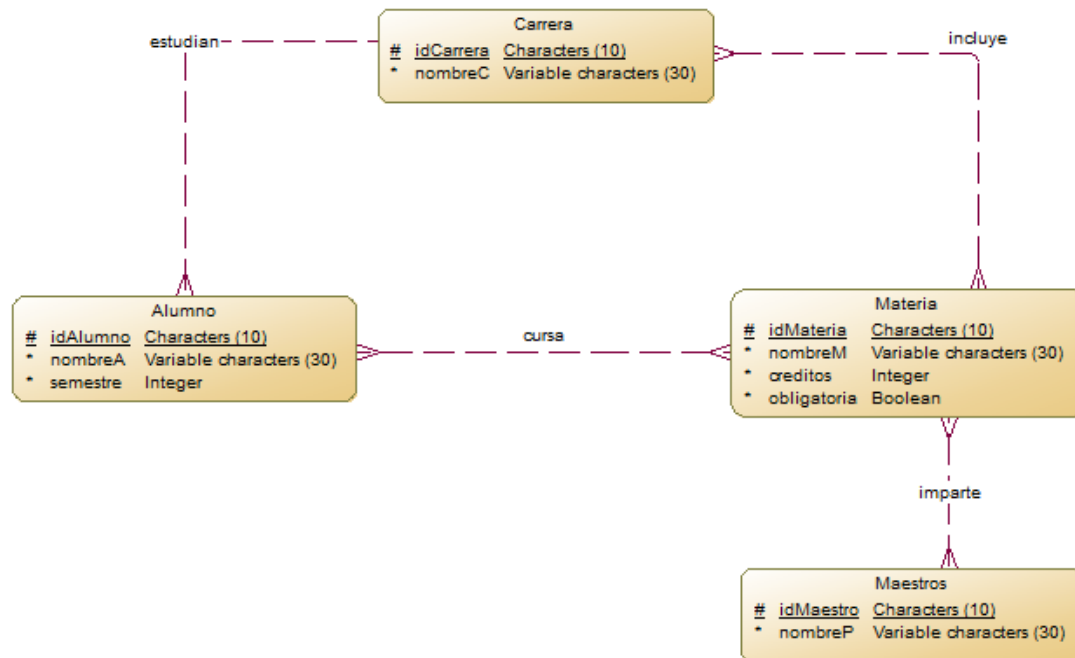
**Guzmán Villanueva Julio César**

**Marmolejo Servín Genaro**

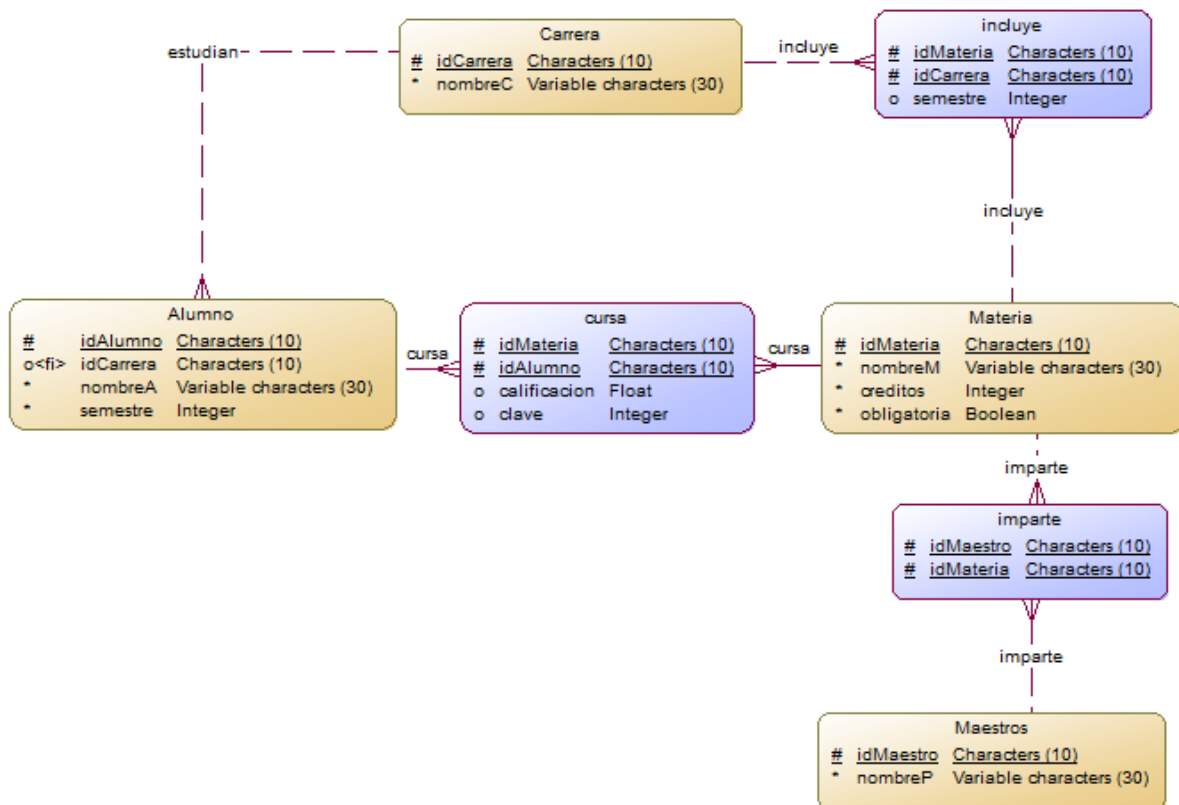
**Fecha de entrega:**

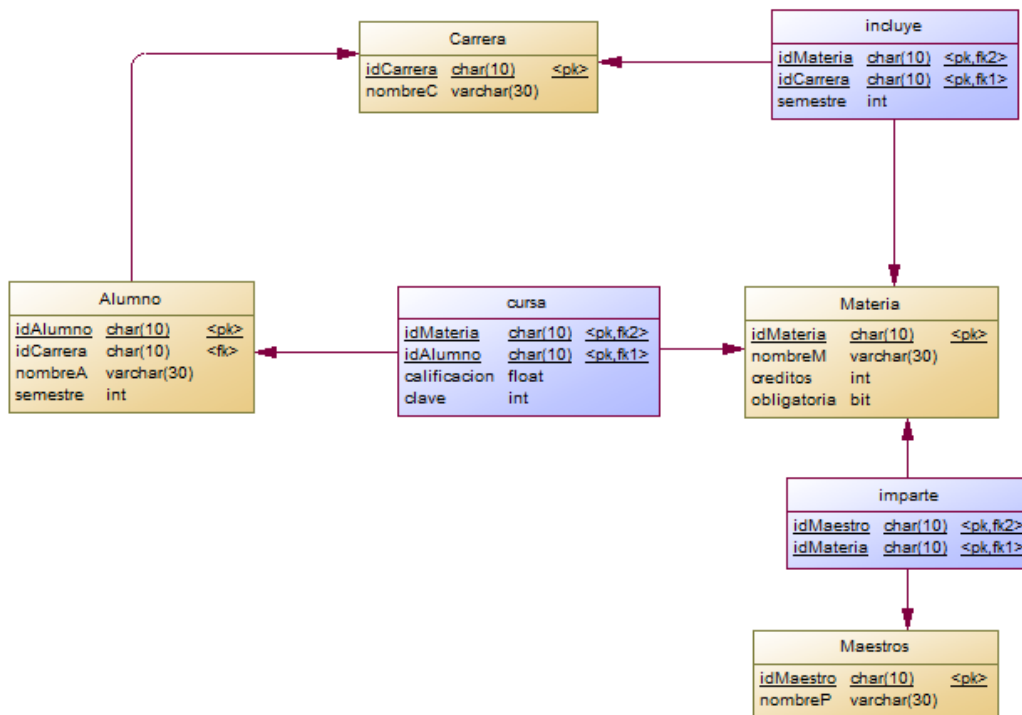
**20/11/2012**

## Diagrama Entidad - Relación



## Modelo Relacional:





### Creación de base de datos:

CreaBase.sql\* - BRAHM (basedat1) / master (basedat1)

File Edit SQL Data Favorites Tools Window Help

master

SQL Statements

```

1 use master
2 go
3 create database Planes_De_Estudio
4 on default = 10
5 go
6
7
  
```

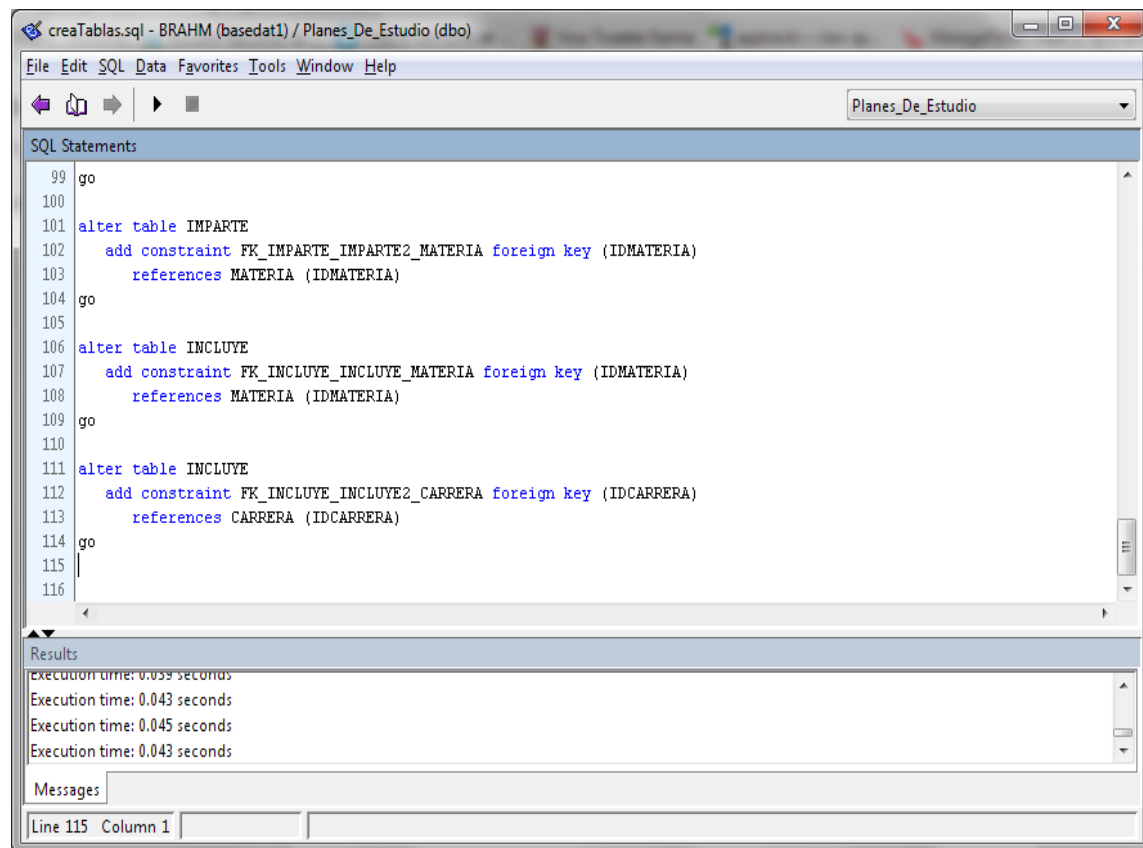
Results

Execution time: 0.048 seconds  
 CREATE DATABASE: allocating 5120 logical pages (10.0 megabytes) on disk 'disco1'.  
 Database 'Planes\_De\_Estudio' is now online.  
 Execution time: 0.212 seconds

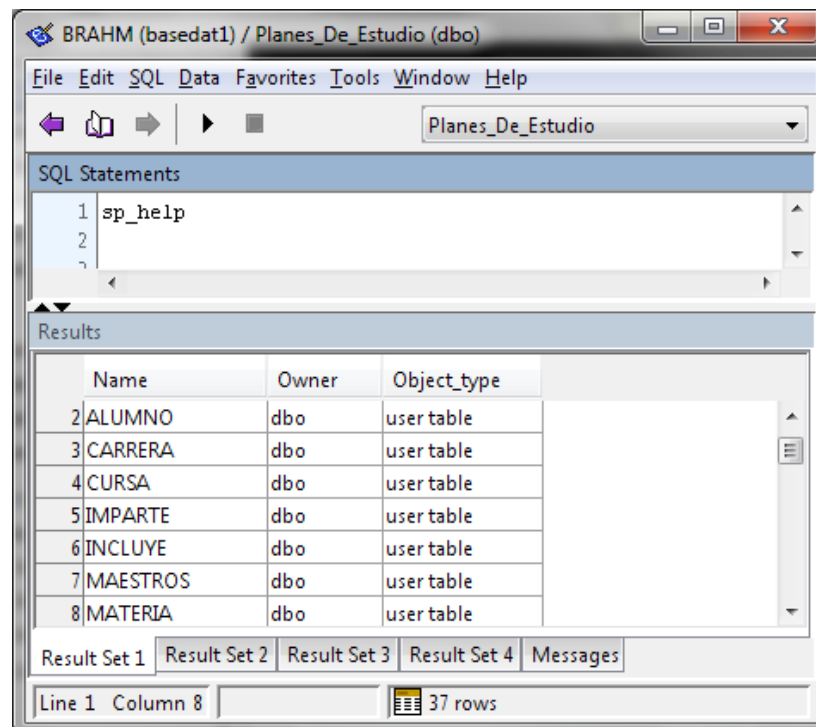
Messages

Line 4 Column 16

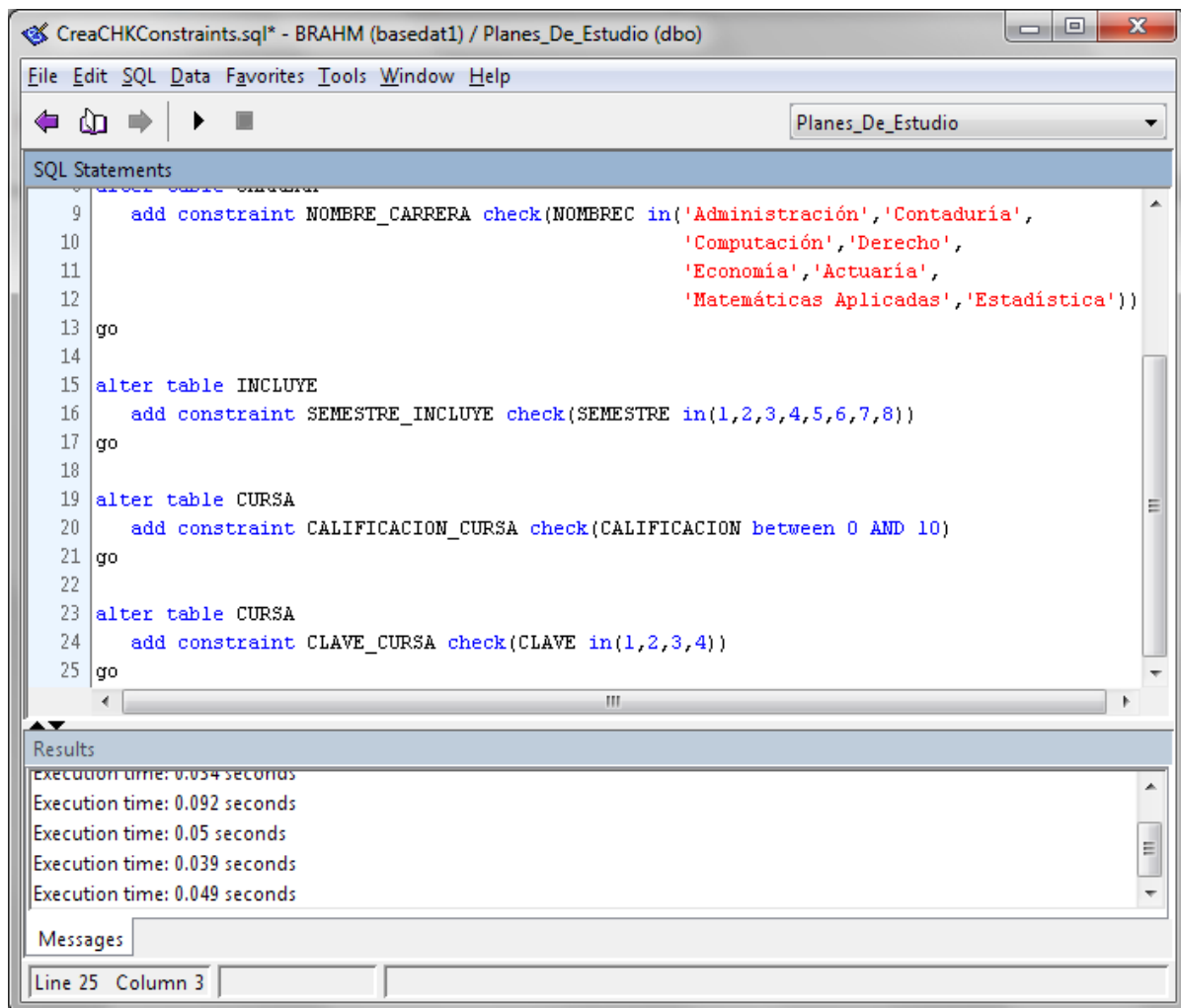
## Creación de tablas



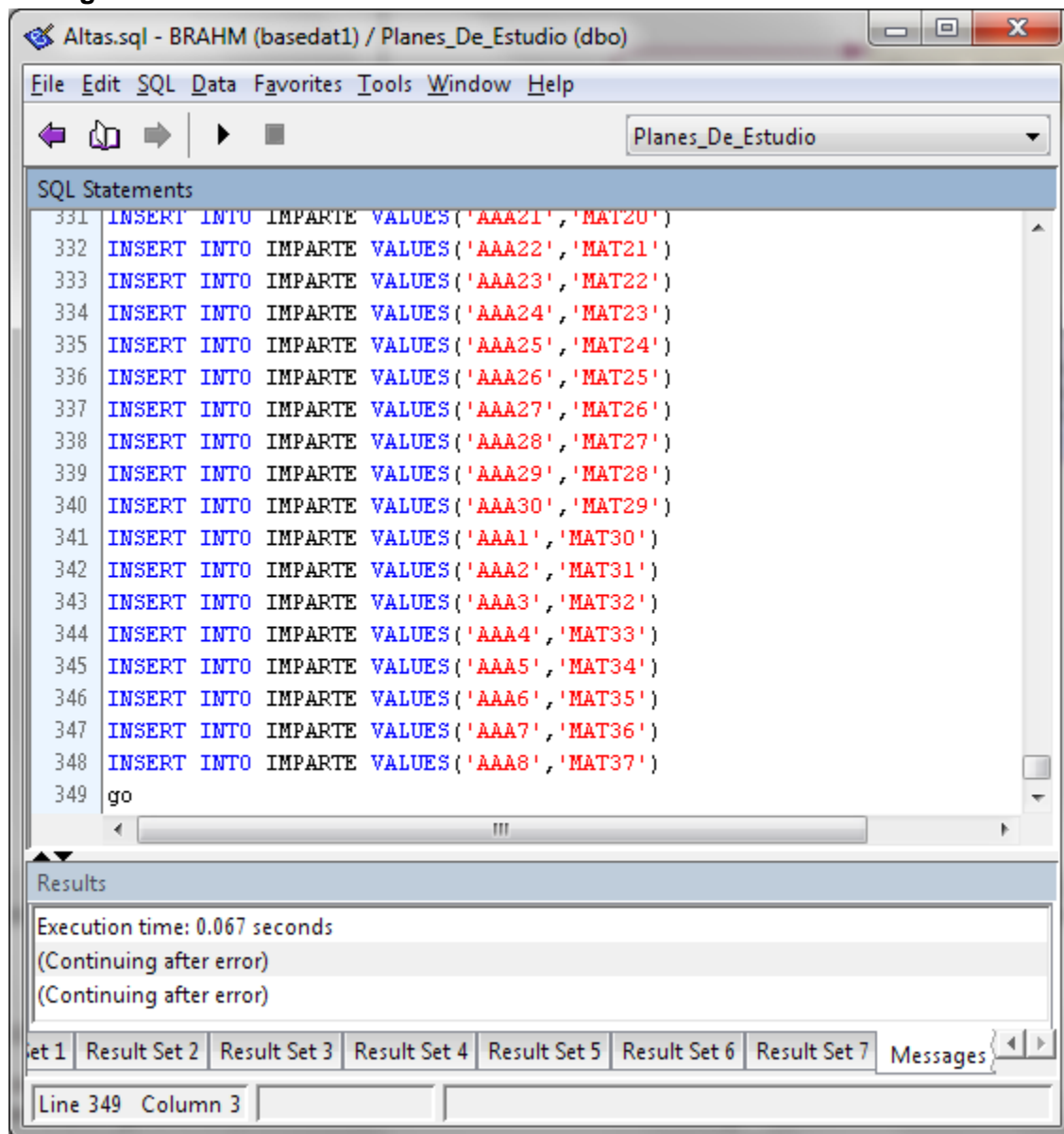
## Comprobación de la creación de las tablas:



## Creación de Check Constraints:



### Alta de registros a la BD:



Registros añadidos:

# CARRERA

<u>IDCARRERA</u>	NOMBREC
ADM	Administración
CON	Contaduría
COM	Computación
DER	Derecho
ECO	Economía
ACT	Actuaría
MAT	Matemáticas Aplicadas
EST	Estadística

## MATERIA

IDMATERIA	NOMBREM	CREDITOS	OBLIGATORIA
MAT0	Algebra	9	1
MAT1	Calculo Diferencial	10	1
MAT2	Geometria Analitica	11	1
MAT3	Administracion	12	1
MAT4	Derecho laboral	9	1
MAT5	Costos	9	1
MAT6	Direccion	10	1
MAT7	Planeacion y control	11	0
MAT8	Conceptos Juridicos	12	1
MAT9	Matematicas Financieras	9	1
MAT10	Contabilidad I	9	0
MAT11	Cultura y Comunicación	10	0
MAT12	Algebra Lineal	11	1
MAT13	Calculo Integral	12	1
MAT14	Estatica	9	1
MAT15	Computación para ingenieros	9	1
MAT16	Etica Profesional	10	0
MAT17	Macroeconomia	11	1
MAT18	Sociologia	12	1
MAT19	Derecho Romano	9	1
MAT20	Derecho civil	9	1
MAT21	Teoria del estado	10	0
MAT22	Historia Economica	11	1
MAT23	Economia Politica	12	1
MAT24	Teoria economica	9	1
MAT25	Economia industrial	9	1
MAT26	Economia Agricola	10	0
MAT27	Analisis matematico	11	1
MAT28	Finanzas	12	1
MAT29	Demografia	9	1
MAT30	Pensiones privadas	9	0
MAT31	Variable Compleja	10	1
MAT32	Calidad total	11	1
MAT33	Pronosticos	12	1
MAT34	Sistemas inteligentes	9	0
MAT35	Distribuciones	9	1
MAT36	Modelos	10	1
MAT37	Estadistica aplicada	11	0



## MAESTROS

<b>IDMAESTRO</b>	<b>NOMBREP</b>
AAA1	CHAVEZ NORMA
AAA2	BAUTISTA MARGARITA
AAA3	FONSECA OMAR
AAA4	TORRES LUIS
AAA5	PEREZ PABLO
AAA6	MORALES NAVA
AAA7	CASTAÑEDA ERIC
AAA8	MORALES GUADALUPA
AAA9	REYES CINTIA
AAA10	GUZMAN MARTIN
AAA11	VILLANUEVA MARTHA
AAA12	CABALLERO RIVAS
AAA13	REYES CORTEZ
AAA14	MENA ALEJANDRO
AAA15	LOPEZ MARCOS
AAA16	FATIMA MOUMTADI
AAA17	SOLORZANO JUAN
AAA18	CUARON ALFONSO
AAA19	RINCON PEDRO
AAA20	ARZAMENDI SERGIO
AAA21	DOMIGUEZ SUSANA
AAA22	TREJO DANIEL
AAA23	VAZQUEZ ANA
AAA24	CEJUDO ARTURO
AAA25	LICEA VICTOR
AAA26	ARREDONDO ARTURO
AAA27	JOYNER JUAN
AAA28	SANDOVAL LAURA
AAA29	CEJUDO ALBERTO
AAA30	MERRIFIELD CLAUDIO

## CURSA

IDMATERIA	IDALUMNO	CALIFICACION	CLAVE
MAT0	410000000	8	NULL
MAT0	410000001	9	NULL
MAT0	410000002	8	NULL
MAT0	410000003	8	NULL
MAT0	410000004	9	NULL
MAT0	410000005	8	NULL
MAT0	410000006	8	NULL
MAT0	410000007	9	NULL
MAT0	410000008	8	NULL
MAT0	410000009	8	NULL
MAT0	410000010	9	NULL
MAT0	410000011	8	NULL
MAT0	410000012	8	NULL
MAT0	410000013	9	NULL
MAT0	410000014	8	NULL
MAT0	410000015	8	NULL
MAT0	410000016	9	NULL
MAT0	410000017	8	NULL
MAT0	410000018	8	NULL
MAT0	410000019	9	NULL
MAT0	410000020	8	NULL
MAT0	410000021	9	NULL
MAT0	410000022	8	NULL
MAT0	410000023	8	NULL
MAT0	410000024	9	NULL
MAT0	410000025	8	NULL
MAT0	410000026	9	NULL
MAT0	410000027	8	NULL
MAT0	410000028	8	NULL
MAT0	410000029	9	NULL
MAT0	410000030	8	NULL
MAT0	410000031	9	NULL
MAT0	410000032	8	NULL
MAT0	410000033	8	NULL
MAT0	410000034	9	NULL
MAT0	410000035	8	NULL
MAT0	410000036	9	NULL
MAT1	410000000	6	NULL
MAT1	410000001	7	NULL
MAT1	410000002	8	NULL
MAT1	410000003	10	NULL
MAT1	410000004	9	NULL
MAT1	410000005	6	NULL
MAT1	410000006	7	NULL
MAT1	410000007	8	NULL
MAT1	410000008	10	NULL
MAT1	410000009	9	NULL
MAT1	410000010	6	NULL
MAT1	410000011	7	NULL
MAT1	410000012	8	NULL
MAT1	410000013	10	NULL
MAT1	410000014	9	NULL
MAT1	410000015	6	NULL
MAT1	410000016	7	NULL
MAT1	410000017	8	NULL
MAT1	410000018	10	NULL
MAT1	410000019	9	NULL
MAT1	410000020	6	NULL
MAT1	410000021	7	NULL
MAT1	410000022	8	NULL
MAT1	410000023	10	NULL
MAT1	410000024	9	NULL
MAT1	410000025	6	NULL
MAT1	410000026	7	NULL
MAT1	410000027	8	NULL
MAT1	410000028	10	NULL
MAT1	410000029	9	NULL
MAT1	410000030	6	NULL
MAT1	410000031	7	NULL
MAT1	410000032	8	NULL
MAT1	410000033	10	NULL
MAT1	410000034	9	NULL
MAT1	410000035	6	NULL
MAT1	410000036	7	NULL
MAT2	410000000	5	NULL
MAT2	410000001	6	NULL
MAT2	410000002	10	NULL
MAT2	410000003	10	NULL
MAT2	410000004	6	NULL
MAT2	410000005	10	NULL
MAT2	410000006	10	NULL
MAT2	410000007	6	NULL
MAT2	410000008	10	NULL
MAT2	410000009	10	NULL
MAT2	410000010	6	NULL
MAT2	410000011	10	NULL
MAT2	410000012	10	NULL
MAT2	410000013	6	NULL
MAT2	410000014	10	NULL
MAT2	410000015	10	NULL
MAT2	410000016	6	NULL
MAT2	410000017	10	NULL
MAT2	410000018	10	NULL
MAT2	410000019	6	NULL
MAT2	410000020	10	NULL
MAT2	410000021	10	NULL
MAT2	410000022	6	NULL
MAT2	410000023	10	NULL
MAT2	410000024	10	NULL
MAT2	410000025	6	NULL
MAT2	410000026	10	NULL
MAT2	410000027	10	NULL
MAT2	410000028	6	NULL
MAT2	410000029	10	NULL
MAT2	410000030	10	NULL
MAT2	410000031	6	NULL
MAT2	410000032	10	NULL
MAT2	410000033	10	NULL
MAT2	410000034	6	NULL
MAT2	410000035	10	NULL
MAT2	410000036	10	NULL
MAT12	410000010	10	1
MAT13	410000010	10	2
MAT29	410000010	10	3
MAT11	410000010	10	4
MAT12	410000020	10	1
MAT13	410000020	10	2
MAT29	410000020	10	3
MAT11	410000020	10	4

## INCLUYE

IDMATERIA	IDCARRERA	SEMESTRE
MAT0	ADM	1
MAT1	ADM	1
MAT2	ADM	2
MAT0	CON	1
MAT1	CON	1
MAT2	CON	2
MAT0	COM	1
MAT1	COM	1
MAT2	COM	2
MAT0	DER	1
MAT1	DER	1
MAT2	DER	2
MAT0	ECO	1
MAT1	ECO	1
MAT2	ECO	2
MAT0	ACT	1
MAT1	ACT	1
MAT2	ACT	2
MAT0	MAT	1
MAT1	MAT	1
MAT2	MAT	2
MAT0	EST	1
MAT1	EST	1
MAT2	EST	2
MAT3	ADM	3
MAT4	ADM	3
MAT5	ADM	3
MAT6	ADM	3
MAT7	ADM	3
MAT8	CON	3
MAT9	CON	3
MAT10	CON	3
MAT11	COM	3
MAT12	COM	3
MAT13	COM	3
MAT14	COM	3
MAT15	COM	3
MAT16	COM	3
MAT17	DER	3
MAT18	DER	3
MAT19	DER	3
MAT20	DER	8
MAT21	DER	3
MAT22	ECO	3
MAT23	ECO	3
MAT24	ECO	3
MAT25	ECO	3
MAT26	ECO	3
MAT27	ACT	3
MAT28	ACT	3
MAT29	ACT	3
MAT30	ACT	3
MAT31	MAT	3
MAT32	MAT	3
MAT33	MAT	3
MAT34	MAT	3
MAT35	EST	3
MAT36	EST	3
MAT37	EST	3

# IMPARTE

<b>IDMAESTRO</b>	<b>IDMATERIA</b>
AAA1	MAT0
AAA2	MAT1
AAA3	MAT2
AAA4	MAT3
AAA5	MAT4
AAA6	MAT5
AAA7	MAT6
AAA8	MAT7
AAA9	MAT8
AAA10	MAT9
AAA11	MAT10
AAA12	MAT11
AAA13	MAT12
AAA14	MAT13
AAA15	MAT14
AAA16	MAT15
AAA17	MAT16
AAA18	MAT17
AAA19	MAT18
AAA20	MAT19
AAA21	MAT20
AAA22	MAT21
AAA23	MAT22
AAA24	MAT23
AAA25	MAT24
AAA26	MAT25
AAA27	MAT26
AAA28	MAT27
AAA29	MAT28
AAA30	MAT29
AAA1	MAT30
AAA2	MAT31
AAA3	MAT32
AAA4	MAT33
AAA5	MAT34
AAA6	MAT35
AAA7	MAT36
AAA8	MAT37

# ALUMNOS

<b>IDALUMNO</b>	<b>IDCARRERA</b>	<b>NOMBREA</b>	<b>SEMESTRE</b>
410000000	ADM	AGUILAR CHALE JOSE JONATHAN	2
410000001	ADM	ARZATE LUGARDO KEVIN OMAR	2
410000002	ADM	BELMAN GALVAN OSCAR	3
410000003	ADM	CABRERA PEÑA RODRIGO	2
410000004	ADM	CASTILLO LEMUS MIGUEL ANDRES	2
410000005	CON	DE LA CRUZ FRANCISCO	3
410000006	CON	DIAZ RAMIREZ HUGO ALEJANDRO	2
410000007	CON	FLORES BERMEO SONIA NOEMI	2
410000008	CON	FLORES DIAZ RICARDO	3
410000009	CON	GONZALEZ GONZALEZ RICARDO	2
410000010	COM	GUZMAN VILLANUEVA JULIO CESAR	3
410000011	COM	HERNANDEZ VALENCIA RICARDO	3
410000012	COM	HERRERA LEDON JOSE	2
410000013	DER	LEYVA GARCIA CID SANDRO	2
410000014	DER	LOPEZ MANCILLA SARA	3
410000015	DER	MARTINEZ CANTERA JOSE	2
410000016	DER	MARTINEZ SALDIVAR MIRIAM	2
410000017	DER	MARTINEZ VAZQUEZ FRANCISCO	3
410000018	ECO	MAURILIO DIEGO	2
410000019	ECO	MENDOZA BAUTISTA ESTHER	2
410000020	COM	MARMOLEJO SERVIN GENARO	3
410000021	ECO	MORALES GUZMAN ANA LAURA	2
410000022	ECO	MORALES MANZANERO MARIANA MABEL	2
410000023	ACT	OLVERA CAMBRON LUIS ANGEL	3
410000024	ACT	PLIEGO VILLANUEVA ANDREA	2
410000025	ACT	REYES VELAZQUEZ CHRISTIAN	2
410000026	ACT	RIOS SOLTERO JORGE OCTAVIO	3
410000027	MAT	ROBLEDO CARRANZA ESAI	2
410000028	MAT	ROBLES MUÑOZ FERNANDO	2
410000029	MAT	RODRIGUEZ CHAVEZ DANIEL	3
410000030	MAT	ROMERO VELAZQUEZ DIANA	2
410000031	MAT	SANCHEZ BENAVIDES EDUARDO	2
410000032	EST	TAPIA MIRANDA ARIADNA	3
410000033	EST	YEPEZ AGUILAR RICARDO	2
410000034	EST	MARTINEZ SANCHEZ JOSE	2
410000035	EST	CALIX OSCAR JAVIER	3
410000036	EST	SANCHEZ GRANDE	2

**Comprobación de Inserción:**  
**ALUMNO:**

The screenshot shows a SQL Enterprise Manager window titled "queryComprobacionTablas.sql\* - BRAHM (basedat1) / Planes\_De\_Estudio (dbo)". The window has a menu bar (File, Edit, SQL, Data, Favorites, Tools, Window, Help) and a toolbar with navigation icons. The "SQL Statements" pane contains the following query:

```
8  
9 select * from CURSA  
10  
11 select * from INCLUYE  
12  
13 select * from IMPARTE  
14  
15 go  
16
```

The "Results" pane displays a table with 4 columns: IDALUMNO, IDCARRERA, NOMBREA, and SEMESTRE. The table contains 10 rows of data. Below the table, there are tabs for "Result Set 1" through "Result Set 7" and "Messages". The status bar at the bottom indicates "Line 16 Column 1" and "37 rows".

	IDALUMNO	IDCARRERA	NOMBREA	SEMESTRE
1	410000000	ADM	AGUILAR CHALE JOSE JONATHAN	2
2	410000001	ADM	ARZATE LUGARDO KEVIN OMAR	2
3	410000002	ADM	BELMAN GALVAN OSCAR	3
4	410000003	ADM	CABRERA PEÑA RODRIGO	2
5	410000004	ADM	CASTILLO LEMUS MIGUEL ANDRES	2
6	410000005	CON	DE LA CRUZ FRANCISCO	3
7	410000006	CON	DIAZ RAMIREZ HUGO ALEJANDRO	2
8	410000007	CON	FLORES BERMEO SONIA NOEMI	2
9	410000008	CON	FLORES DIAZ RICARDO	3
10	410000009	CON	GONZALEZ GONZALEZ RICARDO	2

## CARRERA:

The screenshot shows a SQL query execution window titled "queryComprobacionTablas.sql\* - BRAH...". The window has a menu bar with "File", "Edit", "SQL", "Data", "Favorites", "Tools", "Window", and "Help". Below the menu bar is a toolbar with navigation icons and a text box containing "Planes\_De\_Estudio". The main area is divided into two panes: "SQL Statements" and "Results".

The "SQL Statements" pane contains the following SQL code:

```
8  
9 select * from CURSA  
10  
11 select * from INCLUYE  
12  
13 select * from IMPARTE  
14  
15 go  
16
```

The "Results" pane displays a table with two columns: "IDCARRERA" and "NOMBREC". The table contains 8 rows of data:

	IDCARRERA	NOMBREC
1	ADM	Administración
2	CON	Contaduría
3	COM	Computación
4	DER	Derecho
5	ECO	Economía
6	ACT	Actuaría
7	MAT	Matemáticas Aplicadas
8	EST	Estadística

At the bottom of the window, there is a status bar showing "Line 16 Column 1" and "8 rows".



## MATERIA:

The screenshot shows a SQL query window titled "queryComprobacionTablas.sql\* - BRAHM (basedat1) / Planes\_De\_Estudio (dbo)". The query contains three SELECT statements for tables CURSA, INCLUYE, and IMPARTE, followed by a GO command. The Results pane displays a table with 10 rows and 4 columns: IDMATERIA, NOMBREM, CREDITOS, and OBLIGATORIA. The data lists various subjects like Algebra, Calculo Diferencial, Geometria Analitica, etc. The status bar at the bottom indicates "Line 16 Column 1" and "38 rows".

queryComprobacionTablas.sql\* - BRAHM (basedat1) / Planes\_De\_Estudio (dbo)

File Edit SQL Data Favorites Tools Window Help

Planes\_De\_Estudio

SQL Statements

```
8
9 select * from CURSA
10
11 select * from INCLUYE
12
13 select * from IMPARTE
14
15 go
16
```

Results

	IDMATERIA	NOMBREM	CREDITOS	OBLIGATORIA
1	MAT0	Algebra	9	1
2	MAT1	Calculo Diferencial	10	1
3	MAT2	Geometria Analitica	11	1
4	MAT3	Administracion	12	1
5	MAT4	Derecho laboral	9	1
6	MAT5	Costos	9	1
7	MAT6	Direccion	10	1
8	MAT7	Planeacion y control	11	0
9	MAT8	Conceptos Juridicos	12	1
10	MAT9	Matematicas Financieras	9	1

Result Set 1 Result Set 2 Result Set 3 Result Set 4 Result Set 5 Result Set 6 Result Set 7 Messages

Line 16 Column 1 38 rows

## MAESTROS:

The screenshot shows a SQL query execution window titled "queryComprobacionTablas.sql\* - BRAHM (...)". The window has a menu bar (File, Edit, SQL, Data, Favorites, Tools, Window, Help) and a toolbar with navigation icons. The "SQL Statements" pane contains the following code:

```
8  
9 select * from CURSA  
10  
11 select * from INCLUYE  
12  
13 select * from IMPARTE  
14  
15 go  
16
```

The "Results" pane displays the output of the queries. It shows a table with two columns: "IDMAESTRO" and "NOMBREP". The results are as follows:

	IDMAESTRO	NOMBREP
1	AAA1	CHAVEZ NORMA
2	AAA2	BAUTISTA MARGARITA
3	AAA3	FONSECA OMAR
4	AAA4	TORRES LUIS
5	AAA5	PEREZ PABLO
6	AAA6	MORALES NAVA
7	AAA7	CASTAÑEDA ERIC
8	AAA8	MORALES GUADALUPA
9	AAA9	REYES CINTIA
10	AAA10	GUZMAN MARTIN

At the bottom of the window, there are tabs for "Result Set 1", "Result Set 2", "Result Set 3", "Result Set 4", and "Res...". The status bar at the bottom indicates "Line 16 Column 1" and "30 rows".



CURSA:

The screenshot shows a SQL query execution window titled "queryComprobacionTablas.sql - BRAHM (basedat1) / Pla...". The window has a menu bar (File, Edit, SQL, Data, Favorites, Tools, Window, Help) and a toolbar with navigation icons. The "SQL Statements" pane contains three separate SELECT statements, each on a new line, followed by a "go" command. The "Results" pane displays the output of the first SELECT statement as a table with four columns: IDMATERIA, IDALUMNO, CALIFICACION, and CLAVE. The table contains 10 rows of data. The status bar at the bottom indicates "Line 16 Column 1" and "119 rows".

SQL Statements

```
8  
9 select * from CURSA  
10  
11 select * from INCLUYE  
12  
13 select * from IMPARTE  
14  
15 go  
16
```

Results

	IDMATERIA	IDALUMNO	CALIFICACION	CLAVE
1	MAT0	410000000	8	(NULL)
2	MAT0	410000001	9	(NULL)
3	MAT0	410000002	8	(NULL)
4	MAT0	410000003	8	(NULL)
5	MAT0	410000004	9	(NULL)
6	MAT0	410000005	8	(NULL)
7	MAT0	410000006	8	(NULL)
8	MAT0	410000007	9	(NULL)
9	MAT0	410000008	8	(NULL)
10	MAT0	410000009	8	(NULL)

Result Set 1 Result Set 2 Result Set 3 Result Set 4 Result Set 5 Res...

Line 16 Column 1 119 rows

INCLUYE:

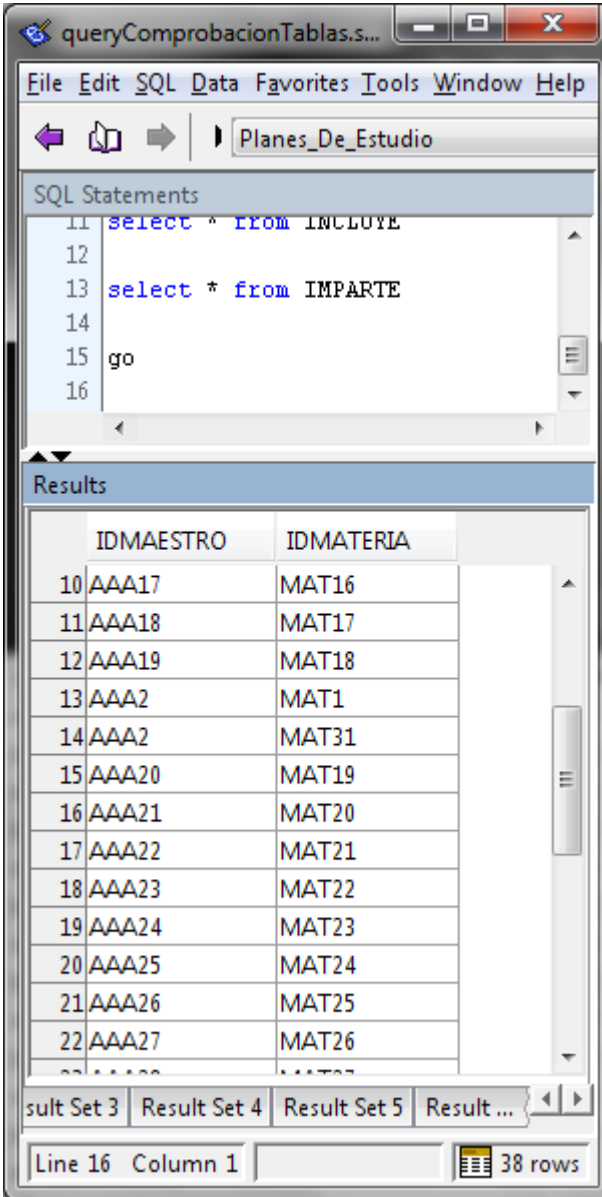
The screenshot shows a SQL query execution window titled "queryComprobacionTablas.sql - BRAHM (bas...". The window has a menu bar (File, Edit, SQL, Data, Favorites, Tools, Window, Help) and a toolbar with navigation icons. The "SQL Statements" pane contains the following code:

```
8  
9 select * from CURSA  
10  
11 select * from INCLUYE  
12  
13 select * from IMPARTE  
14  
15 go  
16
```

The "Results" pane displays the output of the queries as a table with three columns: IDMATERIA, IDCARRERA, and SEMESTRE. The table contains 10 rows of data. Below the table, there are tabs for "Result Set 1", "Result Set 2", "Result Set 3", "Result Set 4", and "Result Set 5". The status bar at the bottom indicates "Line 16 Column 1" and "59 rows".

	IDMATERIA	IDCARRERA	SEMESTRE
1	MAT0	ADM	1
2	MAT1	ADM	1
3	MAT2	ADM	2
4	MAT0	CON	1
5	MAT1	CON	1
6	MAT2	CON	2
7	MAT0	COM	1
8	MAT1	COM	1
9	MAT2	COM	2
10	MAT0	DER	1

IMPARTE:



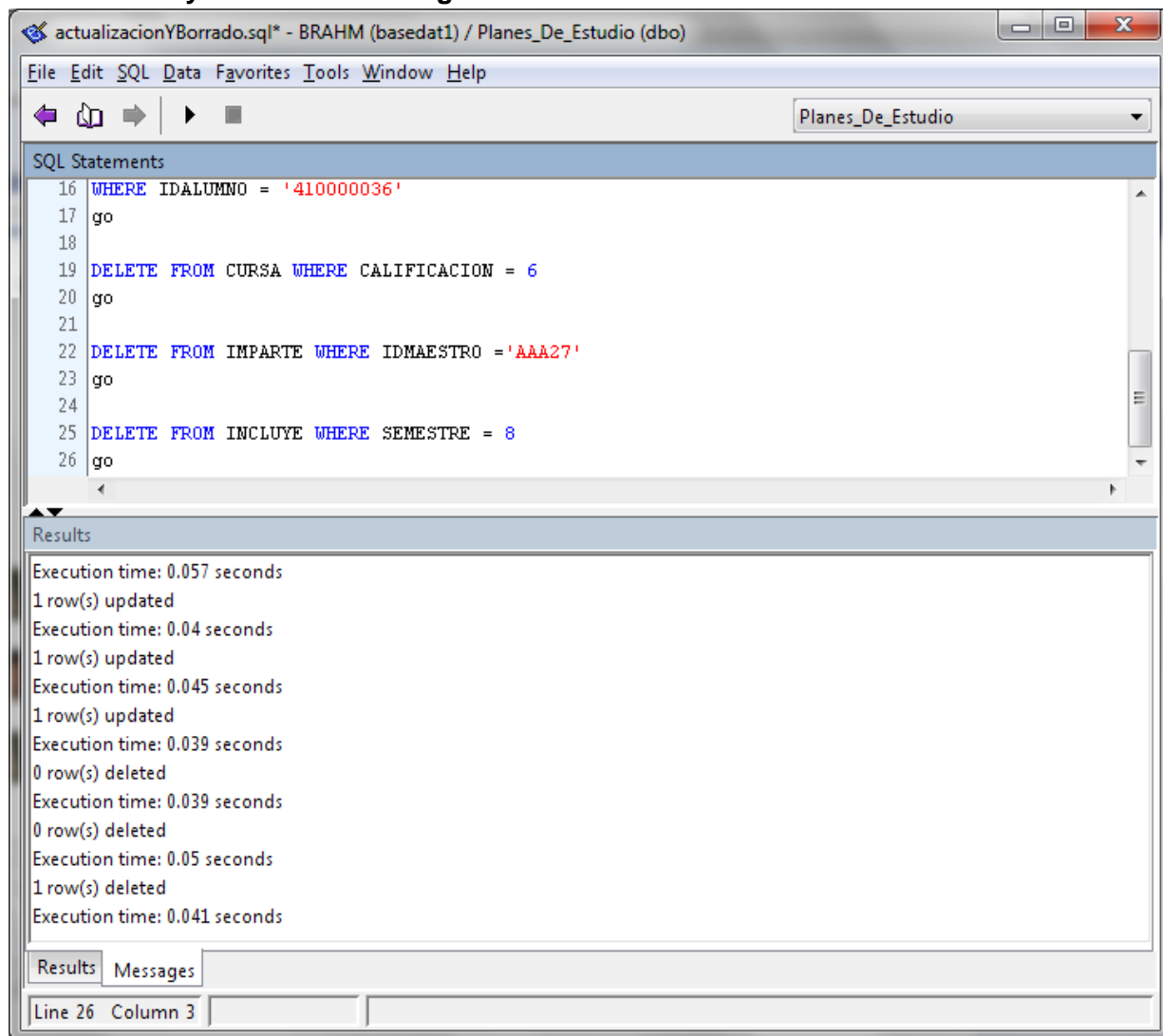
The screenshot shows a SQL query execution window titled "queryComprobacionTablas.s...". The window has a menu bar with "File", "Edit", "SQL", "Data", "Favorites", "Tools", "Window", and "Help". Below the menu bar is a toolbar with navigation icons and a text box containing "Planes\_De\_Estudio". The main area is divided into two panes. The top pane, titled "SQL Statements", contains the following SQL code:

```
11 select * from INCLUYE
12
13 select * from IMPARTE
14
15 go
16
```

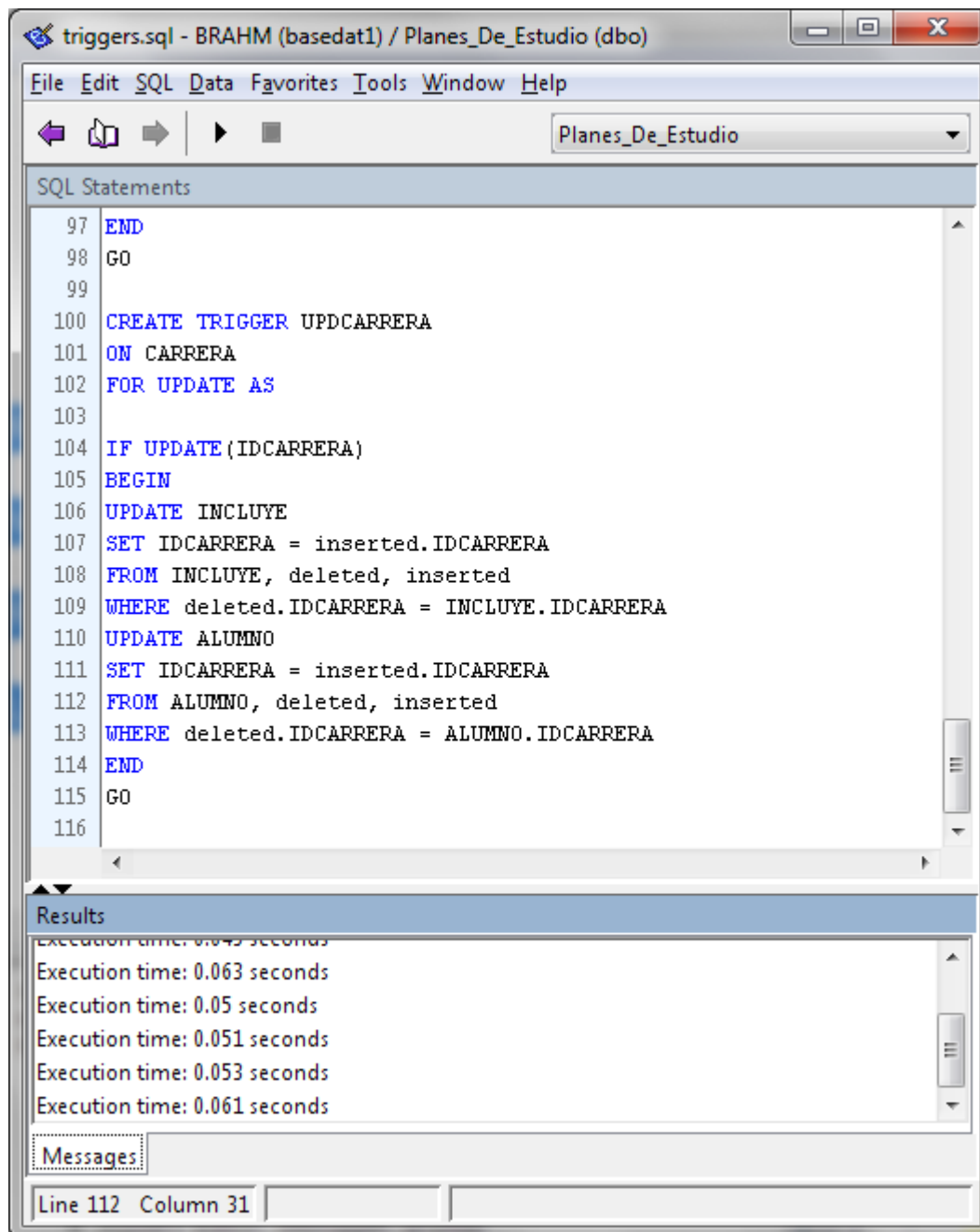
The bottom pane, titled "Results", displays a table with two columns: "IDMAESTRO" and "IDMATERIA". The table contains 38 rows of data. The first 22 rows are visible in the screenshot, showing a list of teachers and their assigned subjects. The status bar at the bottom indicates "Line 16 Column 1" and "38 rows".

IDMAESTRO	IDMATERIA
10 AAA17	MAT16
11 AAA18	MAT17
12 AAA19	MAT18
13 AAA2	MAT1
14 AAA2	MAT31
15 AAA20	MAT19
16 AAA21	MAT20
17 AAA22	MAT21
18 AAA23	MAT22
19 AAA24	MAT23
20 AAA25	MAT24
21 AAA26	MAT25
22 AAA27	MAT26

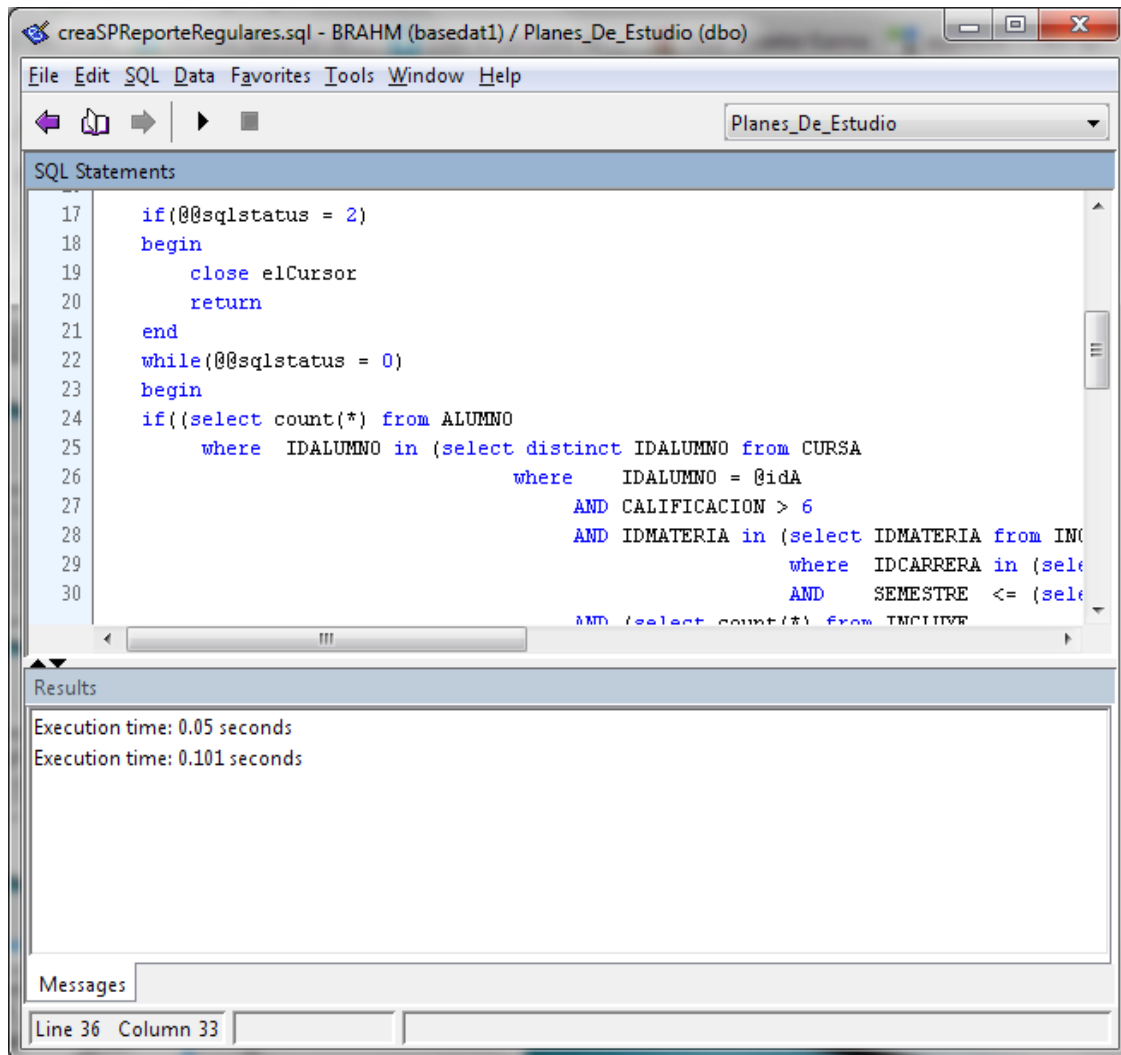
## Actualización y eliminación de registros:



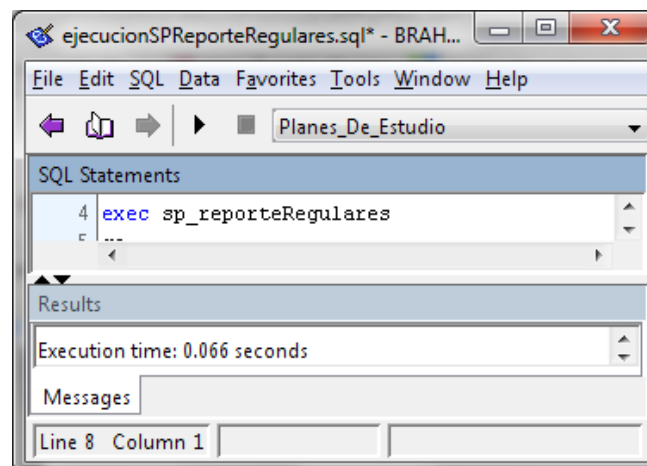
## Triggers:



## Stored Procedures:

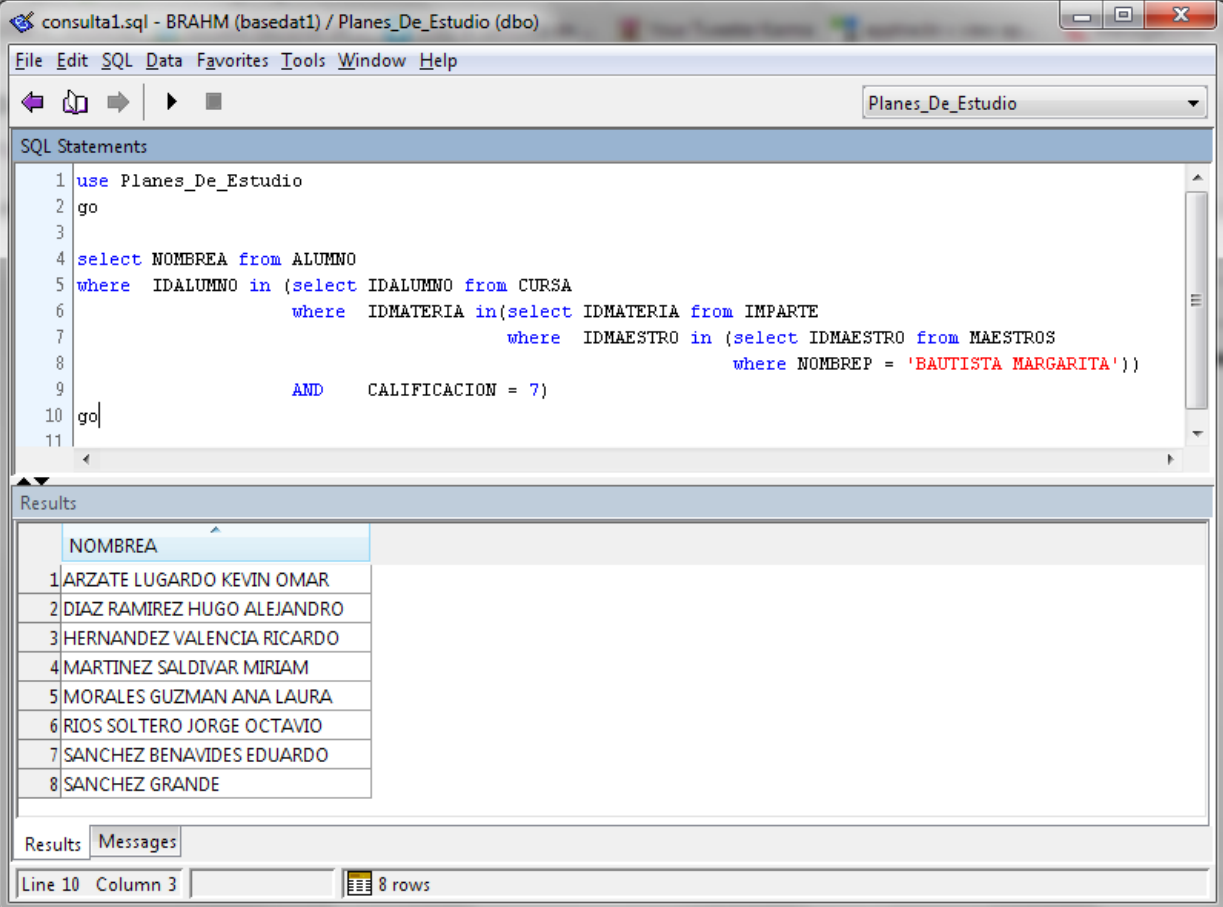


## Ejecución del procedimiento:



## Consultas:

l)



The screenshot shows a SQL Server Enterprise Manager window titled 'consulta1.sql - BRAHM (basedat1) / Planes\_De\_Estudio (dbo)'. The 'SQL Statements' pane contains the following query:

```
1 use Planes_De_Estudio
2 go
3
4 select NOMBREA from ALUMNO
5 where IDALUMNO in (select IDALUMNO from CURSA
6                    where IDMATERIA in (select IDMATERIA from IMPARTE
7                                       where IDMAESTRO in (select IDMAESTRO from MAESTROS
8                                                           where NOMBREP = 'BAUTISTA MARGARITA'))
9                    AND CALIFICACION = 7)
10 go
11
```

The 'Results' pane displays the output of the query, showing a single column 'NOMBREA' with 8 rows of student names:

NOMBREA
1 ARZATE LUGARDO KEVIN OMAR
2 DIAZ RAMIREZ HUGO ALEJANDRO
3 HERNANDEZ VALENCIA RICARDO
4 MARTINEZ SALDIVAR MIRIAM
5 MORALES GUZMAN ANA LAURA
6 RIOS SOLTERO JORGE OCTAVIO
7 SANCHEZ BENAVIDES EDUARDO
8 SANCHEZ GRANDE

The status bar at the bottom indicates 'Line 10 Column 3' and '8 rows'.

II)

consulta2.sql - BRAHM (basedat1) / Planes\_De\_Estudio (dbo)

File Edit SQL Data Favorites Tools Window Help

Planes\_De\_Estudio

SQL Statements

```
2 go
3
4 select NOMBREA, NOMBREM, NOMBREP
5 from ALUMNO, MATERIA, MAESTROS, CURSA, IMPARTE
6 where ALUMNO.IDALUMNO = CURSA.IDALUMNO
7       AND CURSA.IDMATERIA = MATERIA.IDMATERIA
8       AND CURSA.IDMATERIA = IMPARTE.IDMATERIA
9       AND MAESTROS.IDMAESTRO = IMPARTE.IDMAESTRO
10 go
11
```

Results

	NOMBREA	NOMBREM	NOMBREP
1	AGUILAR CHALE JOSE JONATHAN	Algebra	CHAVEZ NORMA
2	AGUILAR CHALE JOSE JONATHAN	Geometria Analitica	FONSECA OMAR
3	AGUILAR CHALE JOSE JONATHAN	Calculo Diferencial	BAUTISTA MARGARITA
4	ARZATE LUGARDO KEVIN OMAR	Algebra	CHAVEZ NORMA
5	ARZATE LUGARDO KEVIN OMAR	Geometria Analitica	FONSECA OMAR
6	ARZATE LUGARDO KEVIN OMAR	Calculo Diferencial	BAUTISTA MARGARITA
7	BELMAN GALVAN OSCAR	Algebra	CHAVEZ NORMA
8	BELMAN GALVAN OSCAR	Geometria Analitica	FONSECA OMAR
9	BELMAN GALVAN OSCAR	Calculo Diferencial	BAUTISTA MARGARITA

Results Messages

Line 10 Column 3 119 rows



III)

The screenshot shows a SQL query window titled 'consulta3.sql - BRAHM (basedat1) / Planes\_De\_Estudio (dbo)'. The query is as follows:

```
2 go
3
4 select NOMBREP, NOMBREM, NOMBREA
5 from ALUMNO, MATERIA, MAESTROS, CURSA, IMPARTE
6 where MAESTROS.IDMAESTRO = IMPARTE.IDMAESTRO
7       AND IMPARTE.IDMATERIA = MATERIA.IDMATERIA
8       AND IMPARTE.IDMATERIA = CURSA.IDMATERIA
9       AND CURSA.IDALUMNO = ALUMNO.IDALUMNO
10 order by NOMBREP
11 go
12
```

The results are displayed in a table with three columns: NOMBREP, NOMBREM, and NOMBREA. The table contains 119 rows of data. The first few rows are:

	NOMBREP	NOMBREM	NOMBREA
34	BAUTISTA MARGARITA	Calculo Diferencial	DIAZ RAMIREZ HUGO ALEJANDRO
35	BAUTISTA MARGARITA	Calculo Diferencial	CASTILLO LEMUS MIGUEL ANDRES
36	BAUTISTA MARGARITA	Calculo Diferencial	GUZMAN VILLANUEVA JULIO CESAR
37	BAUTISTA MARGARITA	Calculo Diferencial	MORALES MANZANERO MARIANA ...
38	CABALLERO RIVAS	Cultura y Comunicac...	MARMOLEJO SERVIN GENARO
39	CABALLERO RIVAS	Cultura y Comunicac...	GUZMAN VILLANUEVA JULIO CESAR
40	CHAVEZ NORMA	Algebra	MAURILIO DIEGO
41	CHAVEZ NORMA	Algebra	SANCHEZ GRANDE

The status bar at the bottom indicates 'Line 11 Column 3' and '119 rows'.

#### IV)

The screenshot shows a SQL Enterprise Manager window titled "BRAHM (basedat1) / Planes\_De\_Estudio (dbo)". The "SQL Statements" pane contains the following query:

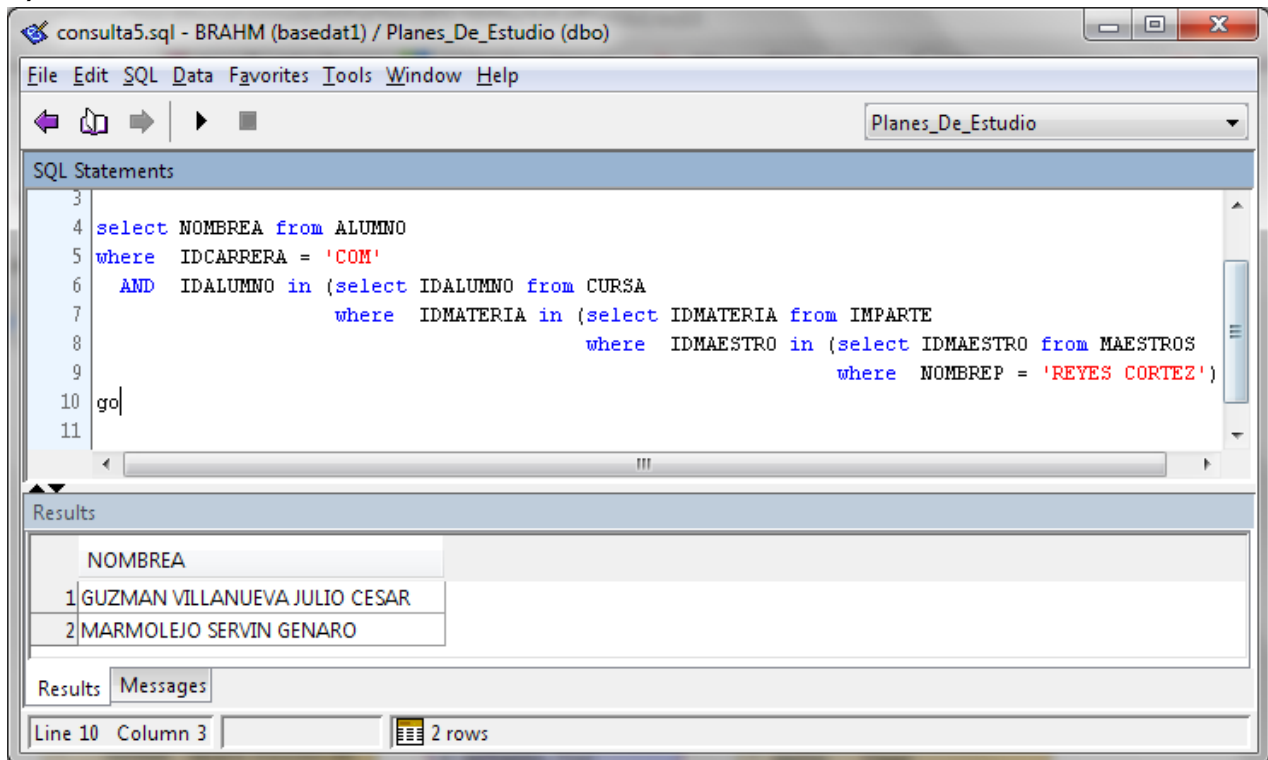
```
4 select NOMBREA
5 from ALUMNO
6 where IDALUMNO in (select IDALUMNO from CURSA
7                    where CALIFICACION = 8
8                    AND IDMATERIA in (select IDMATERIA from MATERIA
9                                     where CREDITOS = 9)
10                   AND IDMATERIA in (select IDMATERIA from IMPARTE
11                                    where IDMAESTRO in (select IDMAESTRO from MAESTROS
12                                                         where NOMBREP = 'CHAVEZ NORMA'))
13 go
```

The "Results" pane displays the output of the query as a table with one column, "NOMBREA". The table contains 9 rows of student names:

	NOMBREA
1	AGUILAR CHALE JOSE JONATHAN
2	BELMAN GALVAN OSCAR
3	CABRERA PEÑA RODRIGO
4	DE LA CRUZ FRANCISCO
5	DIAZ RAMIREZ HUGO ALEJANDRO
6	FLORES DIAZ RICARDO
7	GONZALEZ GONZALEZ RICARDO
8	HERNANDEZ VALENCIA RICARDO
9	HERRERA LEDON JOSE

The status bar at the bottom indicates "Line 12 Column 12" and "23 rows".

v)



### Borrado de Base de datos:

