1).

MariaDB [colegio.bk]> delimiter //

MariaDB [colegio.bk]> create procedure total\_estudiantes()

-> begin

-> select semestre, count(\*) from estudiante group by semestre;

-> end

-> //

Query OK, 0 rows affected (0.12 sec)

MariaDB [colegio.bk]> delimiter ;

MariaDB [colegio.bk]> call total\_estudiantes;

+----------+----------+

| semestre | count(\*) |

+----------+----------+

| 1 | 13 |

| 2 | 3 |

| 3 | 5 |

+----------+----------+

3 rows in set (0.00 sec)

Query OK, 0 rows affected (0.04 sec)

2) MariaDB [colegio.bk]> delimiter //

MariaDB [colegio.bk]> create procedure lista\_estudiantes(n\_semestre INT)

-> begin

-> select codigo, nombre, apellido, email from estudiante where semestre = n

\_semestre;

-> end

-> //

Query OK, 0 rows affected (0.06 sec)

MariaDB [colegio.bk]> delimiter ;

MariaDB [colegio.bk]> call lista\_estudiantes(2);

+-------------+----------------+--------------------+---------------------------

---+

| codigo | nombre | apellido | email

|

+-------------+----------------+--------------------+---------------------------

---+

| 98022155975 | DANIEL FELIPE | CASTA¥O JARAMILLO | donnyth\_03@hotmail.com

|

| 98022155976 | ALEJANDRO | GOMEZ BUENAVENTURA | juanfelipemarin3@outlook.c

om |

| 98022155977 | CARLOS ALBERTO | MURILLO RESTREPO | nataliapenilla91@hotmail.c

om |

+-------------+----------------+--------------------+---------------------------

---+

3 rows in set (0.05 sec)

Query OK, 0 rows affected (0.14 sec)

3)

MariaDB [colegio.bk]> delimiter ;

MariaDB [colegio.bk]> call correo\_estudiante('98022155975');

+------------------------+

| email |

+------------------------+

| donnyth\_03@hotmail.com |

+------------------------+

1 row in set (0.00 sec)

Query OK, 0 rows affected (0.01 sec)

4) MariaDB [colegio.bk]> create procedure servidor\_correo(servidor varchar(7))

-> begin

-> select nombre, email from estudiante where email like concat('%', servido

r,'%');

-> end

-> //

Query OK, 0 rows affected (0.12 sec)

MariaDB [colegio.bk]> delimiter ;

MariaDB [colegio.bk]> call servidor\_correo('gmail');

+-------------------+---------------------------+

| nombre | email |

+-------------------+---------------------------+

| ANDRES FELIPE | danielcotecnova@gmail.com |

| JHON EDWAR | krlosmurillo199@gmail.com |

| SANTIAGO | yermanmicha@gmail.com |

| JUAN FELIPE | miguelpd80@gmail.com |

| YENIFER ALEJANDRA | SYVELEZ44@GMAIL.COM |

| FERNEY ALBERTO | danyjohana321@gmail.com |

+-------------------+---------------------------+

6 rows in set (0.04 sec)

Query OK, 0 rows affected (0.11 sec)

5)

MariaDB [colegio.bk]> create procedure lista\_ordenada(orden INT)

-> begin

-> if orden = 0 then select \* from estudiante order by nombre ASC;

-> elseif orden = 1 select \* from estudiante order by nombre DESC;

-> end if;

-> end

-> //

Query OK, 0 rows affected (0.00 sec)

MariaDB [colegio.bk]> delimiter ;

MariaDB [colegio.bk]> call lista\_ordenada(1);

+-------------+-------------------+---------------------+-----------------------

-----------------------------+----------+-------------------------------+-------

----------+

| codigo | nombre | apellido | programa

| semestre | email | telefo

no |

+-------------+-------------------+---------------------+-----------------------

-----------------------------+----------+-------------------------------+-------

----------+

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7534/3183 |

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4662/2098 |

+-------------+-------------------+---------------------+-----------------------

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----------+

21 rows in set (0.00 sec)

Query OK, 0 rows affected (0.13 sec)

1)

MariaDB [colegio.bk]> create function total\_estudiantes() returns INT

-> begin

-> return (select count(\*) from estudiante);

-> end

-> //

Query OK, 0 rows affected (0.00 sec)

MariaDB [colegio.bk]> delimiter ;

MariaDB [colegio.bk]> select total\_estudiantes();

+---------------------+

| total\_estudiantes() |

+---------------------+

| 21 |

+---------------------+

1 row in set (0.00 sec)

2)

MariaDB [colegio.bk]> delimiter //

MariaDB [colegio.bk]> create function programa(documento varchar(15)) returns varchar(50)

-> begin

-> return (select programa from estudiante where codigo = documento);

-> end

-> //

Query OK, 0 rows affected (0.00 sec)

MariaDB [colegio.bk]> delimiter ;

MariaDB [colegio.bk]> select programa('98022155965');

+----------------------------------------------------+

| programa('98022155965') |

+----------------------------------------------------+

| TECNICO PROF. EN PROGRAMACION DE APLICACIONES INFO |

+----------------------------------------------------+

1 row in set (0.00 sec)

3)

MariaDB [colegio.bk]> delimiter //

MariaDB [colegio.bk]> create function total\_correos(palabra varchar(50)) returns int

-> begin

-> return (select count(\*) from estudiante where email like concat('%',palab

ra,'%'));

-> end

-> //

Query OK, 0 rows affected (0.00 sec)

MariaDB [colegio.bk]> delimiter ;

MariaDB [colegio.bk]> select total\_correos('programacion');

+-------------------------------+

| total\_correos('programacion') |

+-------------------------------+

| 0 |

+-------------------------------+

1 row in set (0.00 sec)

MariaDB [colegio.bk]> select total\_correos('cristian');

+---------------------------+

| total\_correos('cristian') |

+---------------------------+

| 1 |

+---------------------------+

1 row in set (0.00 sec)

4)

MariaDB [colegio.bk]> delimiter //

MariaDB [colegio.bk]> create function nombre\_estudiante(correo varchar(50)) returns varchar(25)

-> begin

-> return (select nombre from estudiante where email = correo);

-> end

-> //

Query OK, 0 rows affected (0.00 sec)

MariaDB [colegio.bk]> delimiter ;

MariaDB [colegio.bk]> select nombre\_estudiante('wordperfect1367@hotmail.com');

+--------------------------------------------------+

| nombre\_estudiante('wordperfect1367@hotmail.com') |

+--------------------------------------------------+

| LUIS FERNANDO |

+--------------------------------------------------+

1 row in set (0.00 sec)

5)

MariaDB [colegio.bk]> create function numero\_estudiantes(n\_semestre int) returns int

-> begin

-> return (select count(\*) from estudiante where semestre = n\_semestre);

-> end

-> //

Query OK, 0 rows affected (0.00 sec)

MariaDB [colegio.bk]> delimiter ;

MariaDB [colegio.bk]> select numero\_estudiantes(1);

+-----------------------+

| numero\_estudiantes(1) |

+-----------------------+

| 13 |

+-----------------------+

1 row in set (0.00 sec)