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A continuación se presentan lo querys de la creación de la base de datos y sus respectivas tablas realizadas en cmd con ayuda de la herramienta XAMPP como administrador de la base de datos MySql

```
Setting environment for using XAMPP for Windows.
Enzo Monroy@NBOOKEM c:\xampp
# mysql
ERROR 1045 (28000): Access denied for user 'Enzo Monroy'@'localhost' (using password: NO)

Enzo Monroy@NBOOKEM c:\xampp
# mysql -h localhost -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 389
Server version: 10.4.28-MariaDB mariadb.org binary distribution

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> show databases
    -> ;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| pasteles           |
| performance_schema |
| phpmyadmin         |
| test               |
+--------------------+
```

Creación de la base de datos

```
MariaDB [(none)]> create database pasteleria
    -> ;
Query OK, 1 row affected (0.015 sec)

MariaDB [(none)]> show databases;
+--------------------+
| Database           |
+--------------------+
| information_schema |
| mysql              |
| pasteleria         |
| pasteles           |
| performance_schema |
| phpmyadmin         |
| test               |
+--------------------+
7 rows in set (0.001 sec)
```

Creación de la table pastel

```
MariaDB [(none)]> use pasteleria;
Database changed
MariaDB [pasteleria]> CREATE TABLE `pastel` (
    ->   `ID_PASTEL` int(11) NOT NULL,
    ->   `NOMBRE_P` varchar(50) NOT NULL,
    ->   `DESCR_P` varchar(80) NOT NULL,
    ->   `PREPARADO_POR` varchar(50) NOT NULL,
    ->   `FECHA_CREA_P` date NOT NULL,
    ->   `FECHA_VENCI_P` date NOT NULL
    -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
Query OK, 0 rows affected (0.033 sec)
```

Creación de la table ingrediente

```
MariaDB [pasteleria]> CREATE TABLE `ingrediente` (
    ->   `ID_INGREDIENTE` int(11) NOT NULL,
    ->   `NOMBRE_I` varchar(50) NOT NULL,
    ->   `DESCR_I` varchar(80) NOT NULL,
    ->   `FECHA_CREA_I` date NOT NULL,
    ->   `FECHA_VENCI_I` date NOT NULL
    -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
Query OK, 0 rows affected (0.011 sec)
```

Creación de la table pastel ingrediente

```
MariaDB [pasteleria]> CREATE TABLE `pastel_ingrediente` (
    ->   `ID_PASTEL_INGREDIENTE` int(11) NOT NULL,
    ->   `PASTEL_ID` int(11) NOT NULL,
    ->   `INGREDIENTE_ID` int(11) NOT NULL
    -> ) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
Query OK, 0 rows affected (0.020 sec)

MariaDB [pasteleria]>
```

Vista de la base de datos con sus tablas

```
MariaDB [pasteleria]> show tables
    -> ;
+----------------------+
| Tables_in_pasteleria |
+----------------------+
| ingrediente          |
| pastel               |
| pastel_ingrediente   |
+----------------------+
3 rows in set (0.001 sec)

MariaDB [pasteleria]>
```

Asignación de la llaves foráneas

```
MariaDB [pasteleria]> ALTER TABLE `ingrediente`
    ->   ADD PRIMARY KEY (`ID_INGREDIENTE`);
Query OK, 0 rows affected (0.053 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [pasteleria]> ALTER TABLE `ingrediente`
    ->   ADD PRIMARY KEY (`ID_INGREDIENTE`);
ERROR 1068 (42000): Multiple primary key defined
MariaDB [pasteleria]> ALTER TABLE `pastel`
    ->   ADD PRIMARY KEY (`ID_PASTEL`);
Query OK, 0 rows affected (0.050 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
MariaDB [pasteleria]> ALTER TABLE `pastel_ingrediente`
    ->   ADD PRIMARY KEY (`ID_PASTEL_INGREDIENTE`),
    ->   ADD KEY `FK_ID_INGREDIENTE` (`INGREDIENTE_ID`),
    ->   ADD KEY `ID_PASTEL_INGREDIENTE` (`ID_PASTEL_INGREDIENTE`),
    ->   ADD KEY `FK_ID_PASTEL` (`PASTEL_ID`) USING BTREE;
Query OK, 0 rows affected (0.063 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

ID de cada tabla auto incrementable

```
MariaDB [pasteleria]> ALTER TABLE `ingrediente`
    ->   MODIFY `ID_INGREDIENTE` int(11) NOT NULL AUTO_INCREMENT;
Query OK, 0 rows affected (0.077 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [pasteleria]> ALTER TABLE `pastel`
    ->   MODIFY `ID_PASTEL` int(11) NOT NULL AUTO_INCREMENT;
Query OK, 0 rows affected (0.070 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [pasteleria]> ALTER TABLE `pastel_ingrediente`
    ->   MODIFY `ID_PASTEL_INGREDIENTE` int(11) NOT NULL AUTO_INCREMENT;
Query OK, 0 rows affected (0.415 sec)
Records: 0  Duplicates: 0  Warnings: 0
```

```
MariaDB [pasteleria]> ALTER TABLE `pastel_ingrediente`
    ->   ADD CONSTRAINT `table pastel_ingrediente_ibfk_1` FOREIGN KEY (`PASTEL_ID`) REFERENCES `pastel` (`ID_PASTEL`) ON DELETE CASCADE ON UPDATE CASCADE,
    ->   ADD CONSTRAINT `table pastel_ingrediente_ibfk_2` FOREIGN KEY (`INGREDIENTE_ID`) REFERENCES `ingrediente` (`ID_INGREDIENTE`) ON DELETE CASCADE ON UPDATE CASCADE;
Query OK, 0 rows affected (0.085 sec)
Records: 0  Duplicates: 0  Warnings: 0

MariaDB [pasteleria]> COMMIT;
Query OK, 0 rows affected (0.001 sec)
```

QUERY

Base de datos: pastelería

```
CREATE TABLE ingrediente (
  ID_INGREDIENTE int(11) NOT NULL,
  NOMBRE_I varchar(50) NOT NULL,
  DESCR_I varchar(80) NOT NULL,
  FECHA_CREA_I date NOT NULL,
  FECHA_VENCI_I date NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
CREATE TABLE pastel (
  ID_PASTEL int(11) NOT NULL,
  NOMBRE_P varchar(50) NOT NULL,
  DESCR_P varchar(80) NOT NULL,
  PREPARADO_POR varchar(50) NOT NULL,
  FECHA_CREA_P date NOT NULL,
  FECHA_VENCI_P date NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

```
CREATE TABLE pastel_ingrediente (
  ID_PASTEL_INGREDIENTE int(11) NOT NULL,
  PASTEL_ID int(11) NOT NULL,
  INGREDIENTE_ID int(11) NOT NULL
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_general_ci;
```

INDICES

```
ALTER TABLE ingrediente
  ADD PRIMARY KEY (ID_INGREDIENTE);
```

```
ALTER TABLE pastel
  ADD PRIMARY KEY (ID_PASTEL);
```

INDICE LA TABLA PASTEL_INGREDIENTE

```
ALTER TABLE pastel_ingrediente
  ADD PRIMARY KEY (ID_PASTEL_INGREDIENTE),
  ADD KEY FK_ID_INGREDIENTE (INGREDIENTE_ID),
  ADD KEY ID_PASTEL_INGREDIENTE (ID_PASTEL_INGREDIENTE),
  ADD KEY FK_ID_PASTEL (PASTEL_ID) USING BTREE;
```

AUTOINCREMENT TABLA INGREDIENTE

```
ALTER TABLE ingrediente
  MODIFY ID_INGREDIENTE int(11) NOT NULL AUTO_INCREMENT;
```

AUTOINCREMENT TABLA PASTEL

```
ALTER TABLE pastel
  MODIFY ID_PASTEL int(11) NOT NULL AUTO_INCREMENT;
```

AUTOINCREMENT TABLA PASTEL_INGREDIENTE

```
ALTER TABLE pastel_ingrediente
  MODIFY ID_PASTEL_INGREDIENTE int(11) NOT NULL AUTO_INCREMENT;
```

CREACION DE LA LLAVES FORANEAS TABLA PASTEL_INGREDIENTE

```
ALTER TABLE pastel_ingrediente
  ADD CONSTRAINT table pastel_ingrediente_ibfk_1 FOREIGN KEY
(PASTEL_ID) REFERENCES pastel (ID_PASTEL) ON DELETE CASCADE ON UPDATE
CASCADE,
  ADD CONSTRAINT table pastel_ingrediente_ibfk_2 FOREIGN KEY
(INGREDIENTE_ID) REFERENCES ingrediente (ID_INGREDIENTE) ON DELETE
CASCADE ON UPDATE CASCADE;
COMMIT;
```

DIAGRAMA DE ER DE LA BASE DE DATOS