

TP Integrador - Base de Datos

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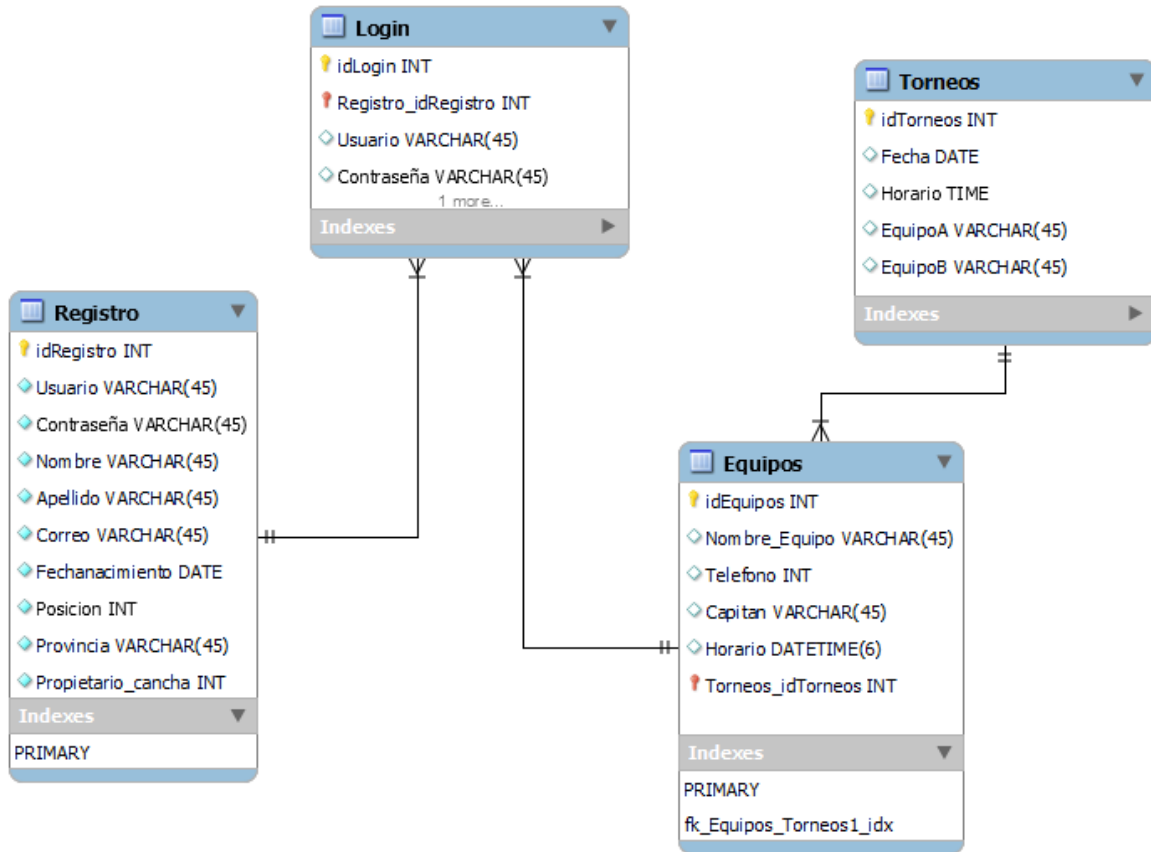
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1) Imagen del modelo relacional generado.



2) Script DDL.

-- MySQL Workbench Forward Engineering

SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0;

SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0;

SET @OLD_SQL_MODE=@@SQL_MODE,
SQL_MODE='ONLY_FULL_GROUP_BY,STRICT_TRANS_TABLES,NO_ZERO_IN_DATE,NO_ZERO_DATE
,ERROR_FOR_DIVISION_BY_ZERO,NO_ENGINE_SUBSTITUTION';

-- Schema Cachita

-- Schema Cachita

CREATE SCHEMA IF NOT EXISTS `Cachita` DEFAULT CHARACTER SET utf8 ;

USE `Cachita` ;

-- Table `Cachita`.`Registro`

CREATE TABLE IF NOT EXISTS `Cachita`.`Registro` (

`idRegistro` INT NOT NULL AUTO_INCREMENT,

`Usuario` VARCHAR(45) NOT NULL,

`Contraseña` VARCHAR(45) NOT NULL,

```
`Nombre` VARCHAR(45) NOT NULL,  
`Apellido` VARCHAR(45) NOT NULL,  
`Correo` VARCHAR(45) NOT NULL,  
`Fechanacimiento` DATE NOT NULL,  
`Posicion` INT NOT NULL,  
`Provincia` VARCHAR(45) NOT NULL,  
`Propietario_cancha` INT NOT NULL,  
PRIMARY KEY (`idRegistro`))  
ENGINE = InnoDB;
```

```
-- -----  
-- Table `Cachita`.`Torneos`  
-- -----  
  
CREATE TABLE IF NOT EXISTS `Cachita`.`Torneos` (  
  `idTorneos` INT NOT NULL,  
  `Fecha` DATE NULL,  
  `Horario` TIME NULL,  
  `EquipoA` VARCHAR(45) NULL,  
  `EquipoB` VARCHAR(45) NULL,  
  PRIMARY KEY (`idTorneos`))  
ENGINE = InnoDB;
```

```
-- -----  
-- Table `Cachita`.`Equipos`  
-- -----  
  
CREATE TABLE IF NOT EXISTS `Cachita`.`Equipos` (  
  `idEquipos` INT NOT NULL,
```

```

`Nombre_Equipo` VARCHAR(45) NULL,
`Telefono` INT NULL,
`Capitan` VARCHAR(45) NULL,
`Horario` DATETIME(6) NULL,
`Torneos_idTorneos` INT NOT NULL,
PRIMARY KEY (`idEquipos`, `Torneos_idTorneos`),
INDEX `fk_Equipos_Torneos1_idx` (`Torneos_idTorneos` ASC) VISIBLE,
CONSTRAINT `fk_Equipos_Torneos1`
    FOREIGN KEY (`Torneos_idTorneos`)
    REFERENCES `Cachita`.`Torneos` (`idTorneos`)
    ON DELETE NO ACTION
    ON UPDATE NO ACTION)
ENGINE = InnoDB;

```

```

-----
-- Table `Cachita`.`Login`
-----

```

```

CREATE TABLE IF NOT EXISTS `Cachita`.`Login` (
    `idLogin` INT NOT NULL,
    `Registro_idRegistro` INT NOT NULL,
    `Usuario` VARCHAR(45) NULL,
    `Contraseña` VARCHAR(45) NULL,
    `Equipos_idEquipos` INT NOT NULL,
    PRIMARY KEY (`idLogin`, `Registro_idRegistro`, `Equipos_idEquipos`),
    INDEX `fk_Login_Registro1_idx` (`Registro_idRegistro` ASC) VISIBLE,
    INDEX `fk_Login_Equipos1_idx` (`Equipos_idEquipos` ASC) VISIBLE,
    CONSTRAINT `fk_Login_Registro1`
        FOREIGN KEY (`Registro_idRegistro`)

```

```

REFERENCES `Cachita`.`Registro` (`idRegistro`)

ON DELETE NO ACTION

ON UPDATE NO ACTION,

CONSTRAINT `fk_Login_Equipos1`

FOREIGN KEY (`Equipos_idEquipos`)

REFERENCES `Cachita`.`Equipos` (`idEquipos`)

ON DELETE NO ACTION

ON UPDATE NO ACTION)

ENGINE = InnoDB;


USE `Cachita`;


-----

-- Placeholder table for view `Cachita`.`view1`

-----

CREATE TABLE IF NOT EXISTS `Cachita`.`view1` (`id` INT);


-----

-- View `Cachita`.`view1`

-----

DROP TABLE IF EXISTS `Cachita`.`view1`;

USE `Cachita`;


SET SQL_MODE=@OLD_SQL_MODE;

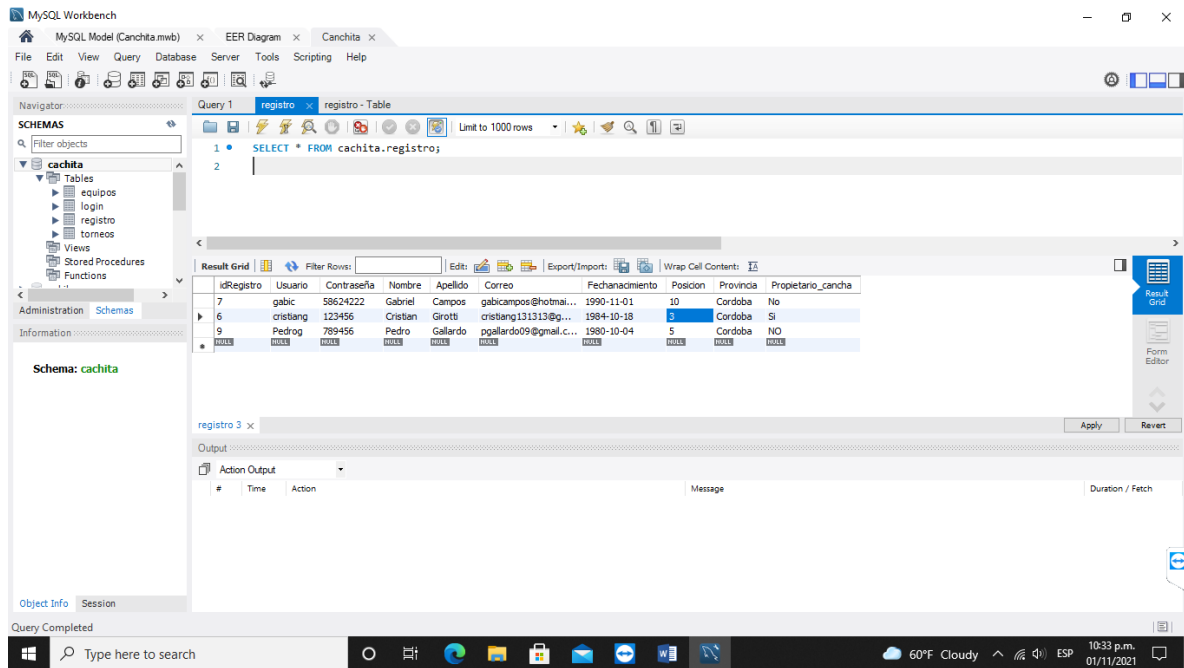
SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS;

SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS;

```

3) Consultas SQL solicitadas en base a su modelo de negocio

- Registrar un nuevo usuario a la base de datos.



The screenshot shows the MySQL Workbench interface. The left sidebar displays the 'Schemas' tree with the 'cachita' database selected. The main window shows a query editor with the following SQL statement:

```
1 SELECT * FROM cachita.registro;
```

The query results are displayed in the 'Result Grid' below the editor. The grid shows the following data:

#	idRegistro	Usuario	Contraseña	Nombre	Apellido	Correo	Fecha nacimiento	Posicion	Provincia	Propietario_cancha
7	gabic	58624222	Gabriel	Campos	gabiccampos@hotmail...	1990-11-01	10	Cordoba	No	
6	oretiang	123456	Oriente	Grote	oretiang131313@gm...	1984-10-18	5	Cordoba	Si	
9	Pedrog	789456	Pedro	Gallardo	pgallardo09@gmail.c...	1980-10-04	5	Cordoba	NO	

The bottom status bar indicates 'Query Completed'.

- Consultar si existe el usuario “Juan” en la base de datos y si la contraseña “123456” es correcta.

The screenshot shows the MySQL Workbench interface. The 'SHEMAS' panel on the left displays the 'cachita' database with tables 'equipos', 'login', 'registro', and 'torneos'. The 'Query' editor contains the following SQL query:

```
SELECT * FROM cachita.registro
WHERE NOMBRE LIKE "JUAN" AND Contraseña=123456;
```

The 'Result Grid' shows the output of the query, which is empty, indicating no records were found. The 'Action Output' panel shows the query execution details:

#	Time	Action	Message	Duration / Fetch
1	21:42:36	SELECT * FROM cachita.registro WHERE NOMBRE LIKE "JUAN" AND Contraseña=123456...	0 row(s) returned	0.000 sec / 0.000 sec

- Insertar un registro en nuestra entidad principal.

The screenshot shows the MySQL Workbench interface. The 'Query' editor contains the following SQL query:

```
INSERT INTO registro (idRegistro, Usuario, Contraseña, Nombre, Apellido, Correo, Fechanacimiento, Posicion, Provincia, Propietario_cancha)
VALUES (9, "Pedrog", 789456, "Pedro", "Gallardo", "pgallardo09@gmail.com", "1980-10-04", 5, "Cordoba", "NO");
```

The 'Result Grid' shows the output of the query, which is empty. The 'Action Output' panel shows the query execution details:

#	Time	Action	Message	Duration / Fetch
1	21:58:20	INSERT INTO registro (idRegistro, Usuario, Contraseña, Nombre, Apellido, Correo, Fechanacimiento, Posicion, Provincia, Propietario_cancha)	1 row(s) affected	0.141 sec
2	21:58:28	SELECT * FROM cachita.registro LIMIT 0, 1000	4 row(s) returned	0.016 sec / 0.000 sec

- Actualizar un dato en nuestra entidad principal para un registro específico

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left shows the 'cachita' database with tables 'equipos', 'login', and 'registro'. The 'registro' table is selected. The 'Query' pane shows the following SQL code:

```
1 SELECT * FROM cachita.registro;
2 UPDATE registro
3 SET Posicion=2
4 WHERE NOMBRE="Cristian";
5
```

The 'Result Grid' shows the data for the 'registro' table:

#	idRegistro	Usuario	Contraseña	Nombre	Apellido	Correo	Fecha nacimiento	Posicion	Provincia	Propietario_cancha
6	cristiang	123456	Cristian	Girotti	cristiang131313@g...	1984-10-18	2	Cordoba	Si	
7	gabic	58624222	Gabriel	Campos	gabiccampos@hotmail...	1990-11-01	10	Cordoba	No	
8	Pedrog	789456	Pedro	Gallardo	pgallardo09@gmail.c...	1980-10-04	5	Cordoba	NO	
9	Pedrog	789456	Pedro	Gallardo	pgallardo09@gmail.c...	1980-10-04	5	Cordoba	NO	

The 'Output' pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	22:06:06	UPDATE registro SET Posicion=2 WHERE NOMBRE="Cristian"	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
2	22:06:11	SELECT * FROM cachita.registro LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec

- Actualizar un dato en nuestra entidad principal para un grupo de registros

The screenshot shows the MySQL Workbench interface. The 'Schemas' pane on the left shows the 'cachita' database with tables 'equipos', 'login', and 'registro'. The 'registro' table is selected. The 'Query' pane shows the following SQL code:

```
1 SELECT * FROM cachita.registro;
2 UPDATE registro
3 SET Posicion=10;
4
```

The 'Result Grid' shows the data for the 'registro' table:

#	idRegistro	Usuario	Contraseña	Nombre	Apellido	Correo	Fecha nacimiento	Posicion	Provincia	Propietario_cancha
6	cristiang	123456	Cristian	Girotti	cristiang131313@g...	1984-10-18	10	Cordoba	Si	
7	gabic	58624222	Gabriel	Campos	gabiccampos@hotmail...	1990-11-01	10	Cordoba	No	
8	Pedrog	789456	Pedro	Gallardo	pgallardo09@gmail.c...	1980-10-04	10	Cordoba	NO	
9	Pedrog	789456	Pedro	Gallardo	pgallardo09@gmail.c...	1980-10-04	10	Cordoba	NO	

The 'Output' pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	22:06:06	UPDATE registro SET Posicion=2 WHERE NOMBRE="Cristian"	0 row(s) affected Rows matched: 1 Changed: 0 Warnings: 0	0.000 sec
2	22:06:11	SELECT * FROM cachita.registro LIMIT 0, 1000	4 row(s) returned	0.000 sec / 0.000 sec
3	22:06:57	UPDATE registro SET Posicion=10	3 row(s) affected Rows matched: 4 Changed: 3 Warnings: 0	0.156 sec
4	22:07:06	SELECT * FROM cachita.registro LIMIT 0, 1000	4 row(s) returned	0.015 sec / 0.000 s

- Eliminar un registro específico de la base de datos

The screenshot shows the MySQL Workbench interface with the 'cachita' database selected. The 'registro' table is highlighted in the Schemas pane. The SQL editor contains the following query:

```
1 SELECT * FROM cachita.registro;
2
3 DELETE FROM registro
4 WHERE Apellido = "Gallardo";
```

The 'Result Grid' displays the data from the 'registro' table:

idRegistro	Usuario	Contraseña	Nombre	Apellido	Correo	FechaNacimiento	Posicion	Provincia	Propietario_cancha
6	cristiang	123456	Cristian	Girotti	cristiang131313@...	1984-10-18	10	Cordoba	Si
7	gabie	58624222	Gabriel	Campos	gabiecampos@hotmail...	1990-11-01	10	Cordoba	No

The 'Output' pane shows the execution results:

#	Time	Action	Message	Duration / Fetch
1	22:10:41	DELETE FROM registro WHERE Apellido = "Gallardo"	2 row(s) affected	0.297 sec
2	22:10:44	SELECT * FROM cachita.registro LIMIT 0, 1000	2 row(s) returned	0.078 sec / 0.000 sec

The status bar at the bottom indicates 'Query Completed'.