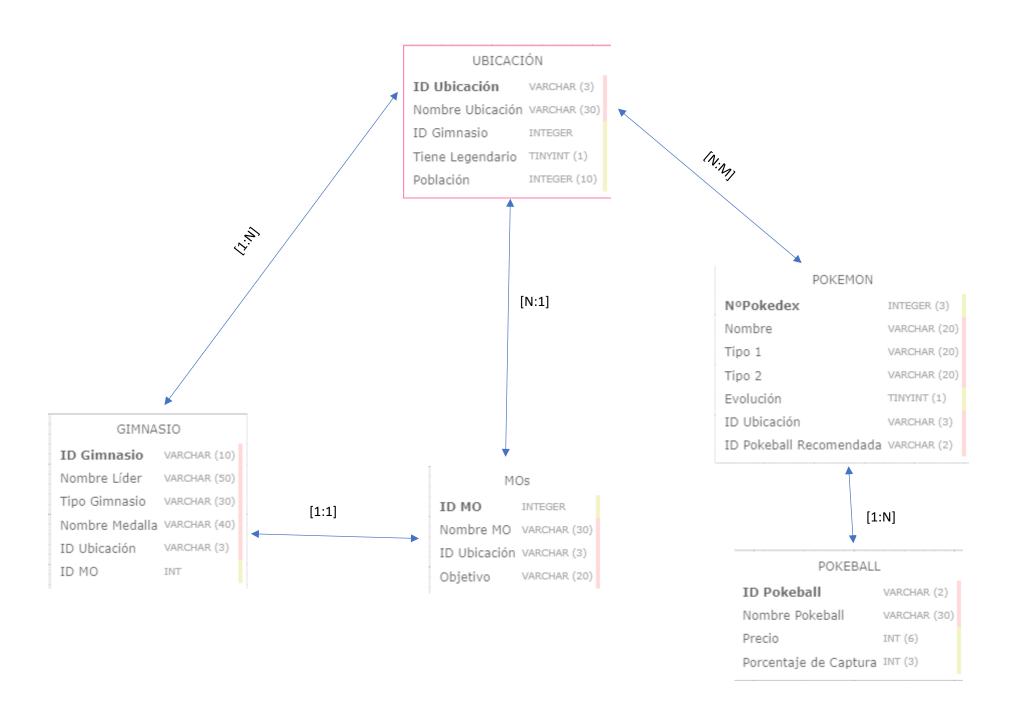
PRÁCTICA 3-1

Realizado por: Jesús Padilla Crespo



1. Plantea un enunciado (piensa en como mínimo el proyecto debe contener 3 tablas)

ENUNCIADO-Queremos crear una base de datos sobre el videojuego Pokémon 1 Generación.

En la base de datos debe constar las ubicaciones del juego, de las cuales nos interesa saber su ID, nombre, Si tiene gimnasio el ID del gimnasio, si la ubicación tiene un evento legendario y la población. El segundo aspecto del juego que nos interesa almacenar son los Pokémon, de los cuales queremos saber su N.º de Pokedex, su nombre, su 1 tipo, y si tiene segundo también queremos almacenarlo, si tienen o no evolución, su ID de Ubicación donde poder capturarlos y el ID de pokeball que recomiendan para capturar dicho Pokémon.

Respecto a las pokeball, queremos almacenar su ID, su nombre, precio y Porcentaje de captura.

En los gimnasios queremos almacenar el ID, los nombres de los líderes de cada gimnasio, el tipo de gimnasio, la medalla y si tienen evento de MO y su ID de ubicación en la que se encuentran. Por último queremos almacenar los datos de la MO, tales como su ID, su nombre, Objetivo y el ID donde se puede obtener.

Además tenemos información adicional respecto a ciertos datos de la base.

Conocemos que en todas las ubicaciones hay varios Pokémon y varios Pokémon en todas las ubicaciones. Sólo algunas ubicaciones tienen gimnasio y solo hay un gimnasio por ubicación. En los gimnasios algunos entregan MO pero no todos, y sólo se entrega una MO por gimnasio con permiso de entrega.

Respecto los Pokémon, sólo se pueden capturar por una Pokeball pero se pueden utilizar varias pokeball por Pokémon (depende de si se ha capturado o no).

- 2. Obtener el modelo ER.
- 3. A partir del Modelo ER obtener el modelo Relacional.

Utilizaré Modelo Realacional con Propagación:

```
\textbf{GIMNASIO}(\underline{\text{ID\_Gimansio}}, \text{Nombre\_Lider, Tipo\_Gimnasio}, \underline{\text{ID\_Ubicación}}, \text{ID\_MO})
```

UBICACIÓN(ID Ubicación, Nombre Ubicación, Tiene Gimnasio, Población, ID Gimnasio)

MOs(ID_MO, Nombre_MO, Objetivo, ID_Ubicación)

POKEMON(Nº Pokedex, Nombre, Tipo1, Tipo2, Evolución, ID Ubicación, ID Pokeball)

POKEBALL(ID_Pokeball,Nombre_Pokeball,Precio,Porcentaje_Captura)

- 4. Crea en Mysql todas las tablas (La parte de DDL)
- 5. Inserta un mínimo de 5 filas por tabla.
- 6. Consultas:
 - a. Crea 10 búsquedas sencillas usando IN, BETWEEN, ...
 - b. Crea 5 búsquedas con Subselect
 - c. Crea 5 búsquedas con Join
 - d. Haz 5 Actualizaciones de las tablas con condiciones.

e. Borra alguna fila

7. Uso de Funciones. Aplica 5 funciones de las vistas en clase en algún ejemplo.

```
Create database practica31;
use practica31;
CREATE TABLE POKEMON (
  N_POKEDEX int(3) NOT NULL,
  NOMBRE varchar(20) NOT NULL,
  TIPO1 varchar(20) NOT NULL,
  TIPO2 varchar(20),
  EVOLUCION ENUM("SI", "NO") DEFAULT "NO" NOT NULL,
  ID UBICACION VARCHAR(3)NOT NULL,
  ID POKEBALL VARCHAR (2) NOT NULL,
  PRIMARY KEY (N_POKEDEX)
);
INSERT INTO POKEMON
VALUES(1, "Bulbasaur", "PLANTA", "VENENO", "SI", "PBS", "PB");
INSERT INTO POKEMON
VALUES(2,"Ivysaur","PLANTA","VENENO","SI","PBS","SB");
INSERT INTO POKEMON
VALUES(3,"Venusaur","PLANTA","VENENO","NO","ISP","UB");
INSERT INTO POKEMON VALUES(4, "Charmander", "FUEGO", NULL, "SI", "CDV", "PB");
INSERT INTO POKEMON VALUES(5, "Charmeleon", "FUEGO", NULL, "NO", "CDK", "SB");
INSERT INTO POKEMON
VALUES(6, "Charizard", "FUEGO", "VOLADOR", "NO", "CDV", "UB");
INSERT INTO POKEMON VALUES(7, "Squirtle", "AGUA", NULL, "SI", "PBL", "PB");
INSERT INTO POKEMON VALUES(8,"Wartortle","AGUA",NULL,"NO","CDP","SB");
INSERT INTO POKEMON VALUES(9,"Blastoise","AGUA",NULL,"NO","ISP","UB");
INSERT INTO POKEMON VALUES(10, "Caterpie", "BICHO", NULL, "SI", "CDP", "PB");
INSERT INTO POKEMON VALUES(11, "Metapod", "BICHO", NULL, "SI", "CDK", "SB");
INSERT INTO POKEMON
VALUES(12, "Butterfree", "BICHO", "VOLADOR", "NO", "CDP", "UB");
INSERT INTO POKEMON VALUES(13, "Weedle", "BICHO", "VENENO
","SI","CDF","PB");
INSERT INTO POKEMON VALUES(14, "Kakuna", "BICHO", "VENENO
","SI","ISC","SB");
INSERT INTO POKEMON VALUES(15, "Beedrill", "BICHO", "VENENO
","NO","ISC","UB");
INSERT INTO POKEMON
VALUES(16, "Pidgey", "NORMAL", "VOLADOR", "SI", "CDP", "PB");
INSERT INTO POKEMON
VALUES(17, "Pidgeotto", "NORMAL", "VOLADOR", "SI", "PBL", "SB");
```

```
INSERT INTO POKEMON
VALUES(18, "Pidgeot", "NORMAL", "VOLADOR", "NO", "CDP", "UB");
INSERT INTO POKEMON VALUES(19, "Rattata", "NORMAL", NULL, "SI", "CDK", "PB");
INSERT INTO POKEMON VALUES(20, "Raticate", "NORMAL", NULL, "NO", "ISC", "SB");
INSERT INTO POKEMON
VALUES(21, "Spearow", "NORMAL", "VOLADOR", "SI", "ISP", "PB");
INSERT INTO POKEMON
VALUES(22, "Fearow", "NORMAL", "VOLADOR", "NO", "ISC", "SB");
INSERT INTO POKEMON VALUES(23, "Ekans", "VENENO ", NULL, "SI", "CDA", "PB");
INSERT INTO POKEMON VALUES(24, "Arbok", "VENENO ", NULL, "NO", "CDC", "SB");
INSERT INTO POKEMON
VALUES(25, "Pikachu", "ELECTRICO", NULL, "SI", "CDF", "PB");
INSERT INTO POKEMON VALUES(26, "Raichu", "ELECTRICO", NULL, "NO", "PBS", "SB");
INSERT INTO POKEMON VALUES(27, "Sandshrew", "TIERRA", NULL, "SI", "ISF", "PB");
INSERT INTO POKEMON VALUES(28, "Sandslash", "TIERRA", NULL, "NO", "CDF", "SB");
INSERT INTO POKEMON VALUES(29, "Nidoran?", "VENENO ", NULL, "SI", "ISC", "PB");
INSERT INTO POKEMON VALUES(30, "Nidorina", "VENENO ", NULL, "SI", "CDC", "SB");
INSERT INTO POKEMON VALUES(31, "Nidoqueen", "VENENO
","TIERRA","NO","CDP","UB");
INSERT INTO POKEMON VALUES(32, "Nidorand", "VENENO ", NULL, "SI", "ISF", "PB");
INSERT INTO POKEMON VALUES(33, "Nidorino", "VENENO ", NULL, "SI", "ISP", "SB");
INSERT INTO POKEMON VALUES (34, "Nidoking", "VENENO
","TIERRA","NO","CDA","UB");
INSERT INTO POKEMON VALUES(35, "Clefairy", "HADA", NULL, "SI", "CDK", "PB");
INSERT INTO POKEMON VALUES(36, "Clefable", "HADA", NULL, "NO", "PBP", "SB");
INSERT INTO POKEMON VALUES(37,"Vulpix","FUEGO",NULL,"SI","ISF","PB");
INSERT INTO POKEMON VALUES(38, "Ninetales", "FUEGO", NULL, "NO", "PBP", "SB");
INSERT INTO POKEMON
VALUES(39,"Jigglypuff","NORMAL",NULL,"SI","PBP","PB");
INSERT INTO POKEMON
VALUES(40,"Wigglytuff","NORMAL",NULL,"NO","ISC","SB");
INSERT INTO POKEMON VALUES(41,"Zubat","VENENO
","VOLADOR","SI","CDA","PB");
INSERT INTO POKEMON VALUES(42, "Golbat", "VENENO
","VOLADOR","NO","ISF","SB");
INSERT INTO POKEMON VALUES(43,"Oddish","PLANTA","VENENO
","SI","PBP","PB");
INSERT INTO POKEMON VALUES(44, "Gloom", "PLANTA", "VENENO
","SI","CDF","SB");
INSERT INTO POKEMON VALUES(45, "Vileplume", "PLANTA", "VENENO
","SI","CDK","UB");
INSERT INTO POKEMON VALUES(46, "Paras", "BICHO", "PLANTA", "NO", "PBL", "PB");
INSERT INTO POKEMON
VALUES(47, "Parasect", "BICHO", "PLANTA", "NO", "ISC", "SB");
INSERT INTO POKEMON VALUES(48, "Venonat", "BICHO", "VENENO
","SI","ISF","PB");
INSERT INTO POKEMON VALUES(49, "Venomoth", "BICHO", "VENENO
","NO","PBS","SB");
INSERT INTO POKEMON VALUES(50, "Diglett", "TIERRA", NULL, "SI", "CDA", "PB");
```

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INSERT INTO POKEMON VALUES(51, "Dugtrio", "TIERRA", NULL, "NO", "CDK", "SB");
INSERT INTO POKEMON VALUES(52, "Meowth", "NORMAL", NULL, "SI", "PBL", "PB");
INSERT INTO POKEMON VALUES(53, "Persian", "NORMAL", NULL, "NO", "CDV", "SB");
INSERT INTO POKEMON VALUES(54,"Psyduck","AGUA",NULL,"SI","CDA","PB");
INSERT INTO POKEMON VALUES(55, "Golduck", "AGUA", NULL, "NO", "PBS", "SB");
INSERT INTO POKEMON VALUES(56, "Mankey", "LUCHA", NULL, "SI", "CDV", "PB");
INSERT INTO POKEMON VALUES(57, "Primeape", "LUCHA", NULL, "NO", "CDA", "SB");
INSERT INTO POKEMON VALUES(58, "Growlithe", "FUEGO", NULL, "SI", "CDC", "PB");
INSERT INTO POKEMON VALUES(59, "Arcanine", "FUEGO", NULL, "NO", "PBL", "SB");
INSERT INTO POKEMON VALUES(60, "Poliwag", "AGUA", NULL, "SI", "PBP", "PB");
INSERT INTO POKEMON VALUES(61, "Poliwhirl", "AGUA", NULL, "SI", "PBL", "SB");
INSERT INTO POKEMON
VALUES(62, "Poliwrath", "AGUA", "LUCHA", "NO", "ISF", "UB");
INSERT INTO POKEMON VALUES(63, "Abra", "PSIQUICO", NULL, "SI", "CDP", "PB");
INSERT INTO POKEMON VALUES(64, "Kadabra", "PSIQUICO", NULL, "SI", "CDV", "SB");
INSERT INTO POKEMON
VALUES(65, "Alakazam", "PSIQUICO", NULL, "NO", "CDV", "UB");
INSERT INTO POKEMON VALUES(66, "Machop", "LUCHA", NULL, "SI", "CDF", "PB");
INSERT INTO POKEMON VALUES(67, "Machoke", "LUCHA", NULL, "SI", "CDC", "SB");
INSERT INTO POKEMON VALUES(68, "Machamp", "LUCHA", NULL, "NO", "PBS", "UB");
INSERT INTO POKEMON VALUES(69, "Bellsprout", "PLANTA", "VENENO
","SI","CDP","PB");
INSERT INTO POKEMON VALUES(70, "Weepinbell", "PLANTA", "VENENO
","SI","CDK","SB");
INSERT INTO POKEMON VALUES(71, "Victreebel", "PLANTA", "VENENO
","NO","ISC","UB");
INSERT INTO POKEMON VALUES(72, "Tentacool", "AGUA", "VENENO
","SI","CDP","PB");
INSERT INTO POKEMON VALUES(73, "Tentacruel", "AGUA", "VENENO
","NO","ISC","SB");
INSERT INTO POKEMON VALUES(74, "Geodude", "ROCA", "TIERRA", "SI", "CDF", "PB");
INSERT INTO POKEMON
VALUES(75, "Graveler", "ROCA", "TIERRA", "NO", "CDK", "SB");
INSERT INTO POKEMON VALUES(76, "Golem", "ROCA", "TIERRA", "NO", "CDK", "UB");
INSERT INTO POKEMON VALUES(77, "Ponyta", "FUEGO", NULL, "SI", "CDF", "PB");
INSERT INTO POKEMON VALUES(78, "Rapidash", "FUEGO", NULL, "NO", "CDC", "SB");
INSERT INTO POKEMON
VALUES(79, "Slowpoke", "AGUA", "PSIQUICO", "SI", "CDA", "PB");
INSERT INTO POKEMON
VALUES(80, "Slowbro", "AGUA", "PSIQUICO", "NO", "CDV", "SB");
INSERT INTO POKEMON
VALUES(81, "Magnemite", "ELECTRICO", "ACERO", "SI", "CDK", "PB");
INSERT INTO POKEMON
VALUES(82, "Magneton", "ELECTRICO", "ACERO", "NO", "ISC", "SB");
INSERT INTO POKEMON
VALUES(83, "Farfetch'd", "NORMAL", "VOLADOR", "NO", "PBS", "PB");
INSERT INTO POKEMON
VALUES(84,"Doduo","NORMAL","VOLADOR","SI","CDA","PB");
```

```
INSERT INTO POKEMON
VALUES(85, "Dodrio", "NORMAL", "VOLADOR", "NO", "CDV", "PB");
INSERT INTO POKEMON VALUES(86, "Seel", "AGUA", NULL, "SI", "ISF", "GB");
INSERT INTO POKEMON VALUES(87, "Dewgong", "AGUA", "HIELO", "NO", "PBP", "PB");
INSERT INTO POKEMON VALUES(88, "Grimer", "VENENO ", NULL, "SI", "PBL", "GB");
INSERT INTO POKEMON VALUES(89, "Muk", "VENENO ", NULL, "NO", "ISP", "PB");
INSERT INTO POKEMON VALUES(90, "Shellder", "AGUA", NULL, "SI", "ISP", "GB");
INSERT INTO POKEMON VALUES(91, "Cloyster", "AGUA", "HIELO", "NO", "ISF", "GB");
INSERT INTO POKEMON VALUES(92, "Gastly", "FANTASMA", "VENENO
","SI","ISP","PB");
INSERT INTO POKEMON VALUES(93, "Haunter", "FANTASMA", "VENENO
","SI","CDV","SB");
INSERT INTO POKEMON VALUES(94, "Gengar", "FANTASMA", "VENENO
","NO","CDA","UB");
INSERT INTO POKEMON VALUES(95, "Onix", "ROCA", "TIERRA", "NO", "CDC", "UB");
INSERT INTO POKEMON VALUES(96, "Drowzee", "PSIQUICO", NULL, "SI", "CDA", "PB");
INSERT INTO POKEMON VALUES(97,"Hypno","PSIQUICO",NULL,"NO","PBS","SB");
INSERT INTO POKEMON VALUES(98, "Krabby", "AGUA", NULL, "SI", "PBS", "PB");
INSERT INTO POKEMON VALUES(99, "Kingler", "AGUA", NULL, "NO", "ISF", "SB");
INSERT INTO POKEMON
VALUES(100, "Voltorb", "ELECTRICO", NULL, "SI", "CDF", "SB");
INSERT INTO POKEMON
VALUES(101, "Electrode", "ELECTRICO", NULL, "NO", "ISP", "PB");
INSERT INTO POKEMON
VALUES(102, "Exeggcute", "PLANTA", "PSIQUICO", "SI", "CDC", "SB");
INSERT INTO POKEMON
VALUES(103, "Exeggutor", "PLANTA", "PSIQUICO", "NO", "ISP", "PB");
INSERT INTO POKEMON VALUES(104, "Cubone", "TIERRA", NULL, "SI", "CDF", "SB");
INSERT INTO POKEMON VALUES(105, "Marowak", "TIERRA", NULL, "NO", "CDV", "SB");
INSERT INTO POKEMON VALUES(106, "Hitmonlee", "LUCHA", NULL, "NO", "PBP", "UB");
INSERT INTO POKEMON
VALUES(107, "Hitmonchan", "LUCHA", NULL, "NO", "PBS", "UB");
INSERT INTO POKEMON
VALUES(108, "Lickitung", "NORMAL", NULL, "NO", "ISC", "SB");
INSERT INTO POKEMON VALUES(109, "Koffing", "VENENO ", NULL, "SI", "ISP", "PB");
INSERT INTO POKEMON VALUES(110, "Weezing", "VENENO ", NULL, "NO", "PBL", "PB");
INSERT INTO POKEMON
VALUES(111, "Rhyhorn", "TIERRA", "ROCA", "SI", "CDC", "SB");
INSERT INTO POKEMON VALUES(112, "Rhydon", "TIERRA", "ROCA", "NO", "ISP", "PB");
INSERT INTO POKEMON VALUES(113, "Chansey", "NORMAL", NULL, "NO", "CDV", "PB");
INSERT INTO POKEMON VALUES(114, "Tangela", "PLANTA", NULL, "NO", "PBL", "PB");
INSERT INTO POKEMON
VALUES(115, "Kangaskhan", "NORMAL", NULL, "NO", "ISP", "SB");
INSERT INTO POKEMON VALUES(116, "Horsea", "AGUA", NULL, "SI", "CDA", "SB");
INSERT INTO POKEMON VALUES(117, "Seadra", "AGUA", NULL, "NO", "PBL", "PB");
INSERT INTO POKEMON VALUES(118, "Goldeen", "AGUA", NULL, "SI", "CDC", "PB");
INSERT INTO POKEMON VALUES(119, "Seaking", "AGUA", NULL, "NO", "PBP", "SB");
INSERT INTO POKEMON VALUES(120, "Staryu", "AGUA", NULL, "SI", "PBL", "PB");
INSERT INTO POKEMON VALUES(121, "Starmie", "AGUA", NULL, "NO", "ISF", "PB");
```

```
INSERT INTO POKEMON VALUES (122, "Mr.
Mime","PSIQUICO","HADA","NO","CDC","PB");
INSERT INTO POKEMON VALUES(123, "Scyther", "BICHO", NULL, "NO", "ISP", "SB");
INSERT INTO POKEMON
VALUES(124,"Jynx","HIELO","PSIQUICO","NO","PBP","PB");
INSERT INTO POKEMON
VALUES(125, "Electabuzz", "ELECTRICO", NULL, "NO", "PBP", "SB");
INSERT INTO POKEMON VALUES(126, "Magmar", "FUEGO", NULL, "NO", "CDA", "SB");
INSERT INTO POKEMON VALUES(127, "Pinsir", "BICHO", NULL, "NO", "CDK", "PB");
INSERT INTO POKEMON VALUES(128, "Tauros", "NORMAL", NULL, "NO", "PBL", "PB");
INSERT INTO POKEMON VALUES(129, "Magikarp", "AGUA", NULL, "SI", "CDC", "PB");
INSERT INTO POKEMON
VALUES(130, "Gyarados", "AGUA", "VOLADOR", "NO", "PBS", "UB");
INSERT INTO POKEMON VALUES(131, "Lapras", "AGUA", "HIELO", "NO", "CDF", "UB");
INSERT INTO POKEMON VALUES(132, "Ditto", "NORMAL", NULL, "NO", "CDP", "PB");
INSERT INTO POKEMON VALUES(133, "Eevee", "NORMAL", NULL, "SI", "ISF", "UB");
INSERT INTO POKEMON VALUES(134, "Vaporeon", "AGUA", NULL, "NO", "PBS", "SB");
INSERT INTO POKEMON
VALUES(135, "Jolteon", "ELECTRICO", NULL, "NO", "CDF", "SB");
INSERT INTO POKEMON VALUES(136, "Flareon", "FUEGO", NULL, "NO", "PBP", "UB");
INSERT INTO POKEMON VALUES(137, "Porygon", "NORMAL", NULL, "NO", "CDA", "SB");
INSERT INTO POKEMON VALUES(138, "Omanyte", "ROCA", "AGUA", "SI", "ISF", "PB");
INSERT INTO POKEMON VALUES(139, "Omastar", "ROCA", "AGUA", "NO", "PBS", "PB");
INSERT INTO POKEMON VALUES(140, "Kabuto", "ROCA", "AGUA", "NO", "CDP", "PB");
INSERT INTO POKEMON VALUES(141, "Kabutops", "ROCA", "AGUA", "NO", "CDK", "UB");
INSERT INTO POKEMON
VALUES(142, "Aerodactyl", "ROCA", "VOLADOR", "NO", "CDV", "UB");
INSERT INTO POKEMON VALUES(143, "Snorlax", "NORMAL", NULL, "NO", "ISF", "UB");
INSERT INTO POKEMON
VALUES(144, "Articuno", "HIELO", "VOLADOR", "NO", "ISC", "MB");
INSERT INTO POKEMON
VALUES(145, "Zapdos", "ELECTRICO", "VOLADOR", "NO", "ISP", "MB");
INSERT INTO POKEMON
VALUES(146, "Moltres", "FUEGO", "VOLADOR", "NO", "ISF", "MB");
INSERT INTO POKEMON VALUES(147, "Dratini", "DRAGÓN", NULL, "SI", "PBL", "PB");
INSERT INTO POKEMON
VALUES(148, "Dragonair", "DRAGÓN", NULL, "SI", "CDP", "SB");
INSERT INTO POKEMON
VALUES(149, "Dragonite", "DRAGÓN", "VOLADOR", "NO", "ISC", "UB");
INSERT INTO POKEMON VALUES(150, "Mewtwo", "PSIQUICO", NULL, "NO", "CDC", "MB");
INSERT INTO POKEMON VALUES(151, "Mew", "PSIQUICO", NULL, "NO", "CDF", "MB");
CREATE TABLE POKEBALL (
  ID POKEBALL VARCHAR (2) NOT NULL,
  NOMBRE POKEBALL varchar(30) NOT NULL,
  CAPTURA PORCENTAJE int(3) NOT NULL,
  PRECIO INT(10) NOT NULL,
  PRIMARY KEY (ID POKEBALL)
```

```
);
INSERT INTO POKEBALL VALUES("PB", "POKEBALL", 42, 100);
INSERT INTO POKEBALL VALUES("SB", "SUPERBALL", 57, 200);
INSERT INTO POKEBALL VALUES("UB","ULTRABALL",73,3000);
INSERT INTO POKEBALL VALUES("MB", "MASTERBALL", 100, 1000000);
CREATE TABLE MOS (
  ID MO INT(2)NOT NULL AUTO INCREMENT,
  NOMBRE_MO varchar(30) NOT NULL,
  ID UBICACION VARCHAR(3) NOT NULL,
 OBJETIVO VARCHAR(10) NOT NULL,
  PRIMARY KEY (ID_MO)
);
INSERT INTO MOS (NOMBRE MO, ID UBICACION, OBJETIVO)
VALUES("CORTE","CDK","ARBOL");
INSERT INTO MOS (NOMBRE MO,ID UBICACION,OBJETIVO)
VALUES("VUELO","PBL","AIRE");
INSERT INTO MOS (NOMBRE MO, ID UBICACION, OBJETIVO)
VALUES("SURF","ISF","LAGO");
INSERT INTO MOS (NOMBRE MO, ID UBICACION, OBJETIVO)
VALUES("FUERZA","CDF","CAJA");
INSERT INTO MOS (NOMBRE MO, ID UBICACION, OBJETIVO)
VALUES("ROMPE_ROCAS","PBP","ROCA");
CREATE TABLE UBICACION (
  ID UBICACION VARCHAR (3) NOT NULL,
  NOMBRE UBICACION varchar(30) NOT NULL,
  ID GIMNASIO VARCHAR(10),
 TIENE LEGENDARIO ENUM("SI", "NO") DEFAULT "NO" NOT NULL,
  POBLACION INT(10) NOT NULL,
  PRIMARY KEY (ID UBICACION)
);
INSERT INTO UBICACION VALUES("PBP", "Pueblo Paleta", "NPC2", "NO", 1520);
INSERT INTO UBICACION VALUES("CDV", "Ciudad Verde", NULL, "NO", 65841);
INSERT INTO UBICACION VALUES("CDP", "Ciudad Plateada", "NPC3", "NO", 147992);
INSERT INTO UBICACION VALUES("CDC", "Ciudad Celeste", NULL, "SI", 26328);
INSERT INTO UBICACION VALUES("CDK", "Ciudad Carmín", "NPC1", "NO", 25476);
INSERT INTO UBICACION VALUES("PBL", "Pueblo Lavanda", "NPC4", "NO", 856);
INSERT INTO UBICACION VALUES("CDA", "Ciudad Azafrán", NULL, "NO", 73223);
INSERT INTO UBICACION VALUES("CDF","Ciudad Fucsia","NPC5","SI",253689);
INSERT INTO UBICACION VALUES("ISC","Isla Canela","NPC6","SI",562);
INSERT INTO UBICACION VALUES("PBS", "Pueblo Sésamo", NULL, "NO", 115);
INSERT INTO UBICACION VALUES("ISP","Isla Petalia","NPC7","SI",4656);
INSERT INTO UBICACION VALUES("ISF","Isla Flaurelia","NPC8","SI",3571);
```

```
CREATE TABLE GIMNASIO (
  ID_GIMNASIO VARCHAR(10)NOT NULL,
 NOMBRE_LIDER varchar(50) NOT NULL,
 TIPO GIMNASIO VARCHAR(30) NOT NULL,
 NOMBRE_MEDALLA VARCHAR(10) NOT NULL,
 ID_UBICACION VARCHAR (3)NOT NULL,
 ID MO INT(2),
 PRIMARY KEY (ID GIMNASIO)
);
INSERT INTO GIMNASIO VALUES("NPC1", "BROCK", "ROCA", "MARMOLITA", "CDK", 01);
INSERT INTO GIMNASIO
VALUES("NPC2","CAPITAN_ANTHONY","ELECTRICO","CHISPITA","PBP",05);
INSERT INTO GIMNASIO
VALUES("NPC3","LANA","HIELO","CARAMBANITA","CDP",NULL);
INSERT INTO GIMNASIO
VALUES("NPC4", "SURFISTA_FU", "AGUA", "OLEADITA", "PBL", 02);
INSERT INTO GIMNASIO VALUES("NPC5", "CELIA", "FUEGO", "LLAMITA", "CDF", 04);
INSERT INTO GIMNASIO
VALUES("NPC6","CHARLES","PLANTA","MARGARITA","ISC",NULL);
INSERT INTO GIMNASIO
VALUES("NPC7","MIA","NORMAL","NORMALITA","ISP",NULL);
INSERT INTO GIMNASIO
VALUES("NPC8", "GIOVANNI", "TIERRA", "FANGONITA", "ISF", 03);
   SELECT ID POKEBALL FROM POKEBALL WHERE PRECIO BETWEEN 50 AND 800
ORDER BY NOMBRE POKEBALL;
    SELECT NOMBRE POKEBALL FROM POKEBALL WHERE NOT CAPTURA PORCENTAJE
BETWEEN 60 AND 80;
    SELECT TIP01, TIP02 FROM POKEMON WHERE N POKEDEX BETWEEN 20 AND 30
ORDER BY 2;
        | NOMBRE LIDER |
        | CELIA
        MIA
        BROCK
        3 rows in set (0.00 sec)
```

```
SELECT N_POKEDEX FROM POKEMON WHERE TIPO1 IN ("HIELO", "TIERRA") ORDER
BY NOMBRE;
    SELECT POBLACION FROM UBICACION WHERE ID_UBICACION
IN("ISC","ISF","ISP");
   SELECT NOMBRE_UBICACION FROM UBICACION WHERE POBLACION BETWEEN 8000
AND 80000;
    SELECT ID GIMNASIO FROM GIMNASIO WHERE NOT ID MO BETWEEN 3 AND 5;
    SELECT NOMBRE LIDER FROM GIMNASIO WHERE NOMBRE MEDALLA IN
("NORMALITA", "MARMOLITA", "LLAMITA") ORDER BY TIPO_GIMNASIO;
   SELECT ID MO FROM MOS WHERE NOT OBJETIVO IN ("ARBOL", "CAJA");
          | ID_MO |
         2 |
              3 |
         5
      3 rows in set (0.00 sec)
    SELECT NOMBRE FROM POKEMON WHERE EVOLUCION IN("SI") LIMIT 10;
    SELECT * FROM POKEMON LIMIT 10;
    SELECT N_POKEDEX FROM POKEMON WHERE NOMBRE LIKE"B%" ORDER BY TIPO1;
    N_POKEDEX
          12 |
            15 l
            1 |
           69
   4 rows in set (0.00 sec)
    SELECT NOMBRE_UBICACION AS"UBICACIONES IMPORTANTES" FROM UBICACION
WHERE TIENE_LEGENDARIO="SI" OR ID_GIMNASIO IS NOT NULL;
    SELECT TIPO_GIMNASIO FROM GIMNASIO WHERE ID_MO IS NULL;
    | TIPO_GIMNASIO |
    | HIELO
    PLANTA
```

```
NORMAL |
   3 rows in set (0.00 sec)
   SELECT ID_UBICACION FROM UBICACION WHERE POBLACION>5200;
    | ID_UBICACION |
    CDA
    | CDC
    CDF
   | CDK
    CDP
    CDV
   6 rows in set (0.00 sec)
   SELECT NOMBRE POKEBALL, ID POKEBALL FROM POKEBALL WHERE PRECIO =
(SELECT MAX(PRECIO) FROM POKEBALL);
    | NOMBRE_POKEBALL | ID_POKEBALL |
   | MASTERBALL | MB
   1 row in set (0.00 sec)
   SELECT N POKEDEX, TIPO1, TIPO2 FROM POKEMON WHERE NOT
CHAR LENGTH(NOMBRE) < (SELECT AVG(CHAR LENGTH(NOMBRE))FROM POKEMON);</pre>
   SELECT ID_UBICACION, TIENE_LEGENDARIO FROM UBICACION WHERE POBLACION >
(SELECT MIN(POBLACION) FROM UBICACION) LIMIT 3;
    | ID_UBICACION | TIENE_LEGENDARIO |
   CDA NO
   CDC
                | SI
   CDF SI
   3 rows in set (0.00 sec)
   SELECT NOMBRE LIDER FROM GIMNASIO WHERE (ID UBICACION LIKE "I%" AND
ID_MO IS NOT NULL) OR (ID_MO > (SELECT AVG(ID_MO)FROM GIMNASIO));
   SELECT NOMBRE MO, OBJETIVO FROM MOS WHERE ID MO>=(SELECT MIN(ID MO)*3
FROM MOS);
    | NOMBRE MO | OBJETIVO |
```

```
SURF LAGO
    | FUERZA | CAJA
   ROMPE_ROCAS | ROCA
   3 rows in set (0.00 sec)
 ---c. Crea 5 búsquedas con Join
   SELECT
GIMNASIO.NOMBRE LIDER, GIMNASIO.ID GIMNASIO, UBICACION.NOMBRE UBICACION
FROM GIMNASIO, UBICACION WHERE
GIMNASIO.ID UBICACION=UBICACION.ID UBICACION;
   NPC1
   BROCK
                               | Ciudad Carmín
   | CAPITAN_ANTHONY | NPC2 | Pueblo Paleta
                  NPC3
                               | Ciudad Plateada
   LANA
   SURFISTA_FU NPC4
CELIA NPC5
CHARLES NPC6
                               | Pueblo Lavanda
                            | Pueblo s.
| Ciudad Fucsia
| Isla Canela
   | MIA
                   NPC7
                               | Isla Petalia
   | GIOVANNI | NPC8 | Isla Flaurelia
   8 rows in set (0.00 sec)
   SELECT POKEMON.N POKEDEX, POKEMON.NOMBRE, POKEBALL. CAPTURA PORCENTAJE
FROM POKEMON, POKEBALL WHERE POKEMON.ID POKEBALL=POKEBALL.ID POKEBALL AND
PRECIO > 300;
   SELECT POKEMON.NOMBRE, POKEMON.ID POKEBALL, GIMNASIO.NOMBRE MEDALLA
FROM POKEMON, GIMNASIO WHERE POKEMON. TIPO2=GIMNASIO. TIPO GIMNASIO;
   SELECT
UBICACION.ID UBICACION, GIMNASIO.ID GIMNASIO, UBICACION. POBLACION FROM
UBICACION, GIMNASIO WHERE UBICACION.ID UBICACION=GIMNASIO.ID UBICACION AND
UBICACION.POBLACION>(SELECT AVG(POBLACION)FROM UBICACION);
   | ID UBICACION | ID GIMNASIO | POBLACION |
   CDP
             NPC3
                          147992
   2 rows in set (0.00 sec)
   SELECT
GIMNASIO.ID_GIMNASIO,GIMNASIO.NOMBRE_LIDER,UBICACION.TIENE_LEGENDARIO,MOS
.NOMBRE MO, MOS.OBJETIVO FROM GIMNASIO, UBICACION, MOS WHERE
```

```
UBICACION.ID_UBICACION=GIMNASIO.ID_UBICACION AND GIMNASIO.ID_MO=MOS.ID_MO
AND GIMNASIO.TIPO_GIMNASIO NOT LIKE ("T%");
  OBJETIVO |
           BROCK NO CORTE
 NPC1
ARBOL |
           NPC2
ROCA
  | NPC4 | SURFISTA_FU | NO
                                    | VUELO
AIRE |
  NPC5 | CELIA | SI
                                           | FUERZA
CAJA
  4 rows in set (0.00 sec)
 ---d. Haz 5 Actualizaciones de las tablas con condiciones.
  UPDATE POKEBALL SET PRECIO=1.5*PRECIO;
   Query OK, 4 rows affected (0.06 sec)
   Rows matched: 4 Changed: 4 Warnings: 0
   UPDATE UBICACION SET POBLACION=POBLACION/1.2 WHERE POBLACION>12000;
   INSERT INTO POKEMON
VALUES(152, "GROUDON", "FUEGO", "TIERRA", "NO", "ISF", "MB");
   Query OK, 1 row affected (0.02 sec)
   UPDATE POKEMON SET TIPO2="OSCURIDAD" WHERE NOMBRE="GENGAR";
   UPDATE POKEMON SET TIP01="SEXY" WHERE NOMBRE="GROUDON";
   UPDATE GIMNASIO SET NOMBRE LIDER="Sergi-Guapo" WHERE ID MO=4;
   Query OK, 1 row affected (0.05 sec)
   Rows matched: 1 Changed: 1 Warnings: 0
   DELETE FROM POKEMON WHERE TIPO2 IS NULL;
   Query OK, 88 rows affected (0.03 sec)
algún ejemplo.
  SELECT GROUP CONCAT(DISTINCT TIPO1) AS "TODOS LOS TIPOS DE POKEMON
QUE EXISTEN" FROM POKEMON;
```

```
| TODOS LOS TIPOS DE POKEMON QUE
EXISTEN
    | PLANTA, FUEGO, BICHO, NORMAL, VENENO
,AGUA,ROCA,ELECTRICO,FANTASMA,TIERRA,PSIQUICO,HIELO,DRAGÓN |
   1 row in set (0.02 sec)
   SELECT LEFT(NOMBRE_MEDALLA,6) FROM GIMNASIO;
    | LEFT(NOMBRE_MEDALLA,6) |
    MARMOL
    | CHISPI
    L CARAMB
    OLEADI
    | LLAMIT
    MARGAR
    NORMAL
    FANGON
   8 rows in set (0.02 sec)
   SELECT LOWER(ID_UBICACION), LOWER(NOMBRE_UBICACION) FROM UBICACION;
    | LOWER(ID_UBICACION) | LOWER(NOMBRE_UBICACION) |
                          ciudad azafrán
    cda
                          | ciudad celeste
    cdc
    cdf
                          ciudad fucsia
    cdk
                          | ciudad carmín
                          ciudad plateada
    cdp
                          | ciudad verde
                          | isla canela
    lisc
    | isf
                          | isla flaurelia
                          | isla petalia
    | isp
                          | pueblo lavanda
    | pbl
                          | pueblo paleta
    pbp
                        | pueblo sésamo
    pbs
   12 rows in set (0.01 sec)
   SELECT SUBSTRING INDEX(NOMBRE POKEBALL, "B", 1) AS
"CALIDAD", SUBSTRING (NOMBRE POKEBALL, -4) FROM POKEBALL;
    | CALIDAD | SUBSTRING(NOMBRE_POKEBALL, -4) |
```

```
| MASTER | BALL
   POKE BALL
   | SUPER | BALL
   ULTRA BALL
   4 rows in set (0.00 sec)
   SELECT CONCAT(ID_UBICACION, POBLACION, TIENE_LEGENDARIO) AS
"SUPERCODIGO UBICACION"FROM UBICACION;
   | SUPERCODIGO UBICACION |
   CDA73223N0
   | CDC26328SI
   CDF253689SI
   CDK25476N0
   CDP147992N0
   CDV65841N0
   | ISC562SI
   | ISF3571SI
   | ISP4656SI
   | PBL856NO
   | PBP1520NO
   | PBS115N0
   12 rows in set (0.00 sec)
```