

MySql  
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#### CREACION TABLA MOVIE

```
CREATE TABLE `MOVIE` (  
  `id` int(11) NOT NULL,  
  `titulo` varchar(255) CHARACTER SET utf8 COLLATE utf8_spanish_ci NOT NULL,  
  `director` varchar(100) CHARACTER SET utf8 COLLATE utf8_spanish_ci NOT NULL,  
  `anno` int(11) NOT NULL,  
  `duracion` int(11) NOT NULL,  
  `genero` varchar(50) CHARACTER SET utf8 COLLATE utf8_spanish_ci NOT NULL  
) ENGINE=MyISAM DEFAULT CHARSET=utf8mb4 COLLATE=utf8mb4_spanish_ci;
```

```
ALTER TABLE `MOVIE`  
  ADD PRIMARY KEY (`id`);
```

```
ALTER TABLE `MOVIE`  
  MODIFY `id` int(11) NOT NULL AUTO_INCREMENT;  
COMMIT;
```

**POBLAR LA TABLA CON LAS 20 MEJORES PELICULAS SEGUN EL SITIO imdb.com**

```
INSERT INTO MOVIE (titulo, director, anio, duracion, genero) VALUES
('The Shawshank Redemption', 'Frank Darabont', 1994, 142, 'Drama'),
('The Godfather', 'Francis Ford Coppola', 1972, 175, 'Crimen,Drama'),
('The Dark Knight', 'Christopher Nolan', 2008, 152, 'Accion,Crimen,Drama'),
('The Godfather Part II', 'Francis Ford Coppola', 1974, 202, 'Crimen,Drama'),
('12 Angry Men', 'Sidney Lumet', 1957, 96, 'Crimen,Drama'),
('Schindler's List', 'Steven Spielberg', 1993, 195, 'Biografica,Drama,Historia'),
('The Lord of the Rings: The Return of the King', 'Peter Jackson', 2003, 201, 'Accion,Aventuras,Drama'),
('Pulp Fiction', 'Quentin Tarantino', 1994, 154, 'Crimen,Drama'),
('The Lord of the Rings: The Fellowship of the Ring', 'Peter Jackson', 2001, 178, 'Accion,Aventuras,Drama'),
('The Good, the Bad and the Ugly', 'Sergio Leone', 1966, 178, 'Western'),
('Forrest Gump', 'Robert Zemeckis', 1994, 142, 'Drama,Romance'),
('Fight Club', 'David Fincher', 1999, 139, 'Drama'),
('The Lord of the Rings: The Two Towers', 'Peter Jackson', 2002, 179, 'Accion,Aventuras,Drama'),
('Inception', 'Christopher Nolan', 2010, 148, 'Accion,Aventuras,Sci-Fi'),
('Star Wars: Episode V - The Empire Strikes Back', 'Irvin Kershner', 1980, 124, 'Accion,Aventuras,Fantasia'),
('The Matrix', 'Lana Wachowski,Lilly Wachowski', 1999, 136, 'Accion,Sci-Fi'),
('Goodfellas', 'Martin Scorsese', 1990, 146, 'Biografia,Crimen,Drama'),
('One Flew Over the Cuckoo's Nest', 'Milos Forman', 1975, 133, 'Drama'),
('Se7en', 'David Fincher', 1995, 127, 'Crimen,Drama,Misterio'),
('It's a Wonderful Life', 'Frank Capra', 1946, 130, 'Drama,Familiar,Fantasia');
```

## PROCEDIMIENTOS ALMACENADOS

```
CREATE PROCEDURE `delete_movie` (IN `p_id` INT)
BEGIN
    DELETE FROM MOVIE WHERE id = p_id;
END
```

```
CREATE PROCEDURE `get_all_movies` ()
BEGIN
    SELECT * FROM MOVIE;
END
```

```
CREATE PROCEDURE `get_movie` (IN `p_id` INT)
BEGIN
    SELECT * FROM MOVIE WHERE id = p_id;
END
```

```
CREATE PROCEDURE `insert_movie` (IN `p_titulo` VARCHAR(255), IN `p_director` VARCHAR(100), IN `p_anno` INT, IN
`p_duracion` INT, IN `p_generos` VARCHAR(255))
BEGIN
    INSERT INTO MOVIE (titulo, director, anno, duracion, genero)
    VALUES (p_titulo, p_director, p_anno, p_duracion, p_generos);
END
```

```
CREATE PROCEDURE `search_movies` (IN `search_term` VARCHAR(255))
BEGIN
    SELECT * FROM MOVIE
    WHERE titulo LIKE CONCAT('%', search_term, '%')
    OR director LIKE CONCAT('%', search_term, '%');
END
```

```
CREATE PROCEDURE `update_movie` (IN `p_id` INT, IN `p_titulo` VARCHAR(255), IN `p_director` VARCHAR(100), IN
`p_anno` INT, IN `p_duracion` INT, IN `p_generos` VARCHAR(255))
BEGIN
    UPDATE MOVIE
    SET titulo = p_titulo,
        director = p_director,
        anno = p_anno,
        duracion = p_duracion,
        genero = p_generos
    WHERE id = p_id;
END
```

```
CREATE PROCEDURE `ValidateInsertMovie` (IN `p_titulo` VARCHAR(255), IN `p_director` VARCHAR(100), IN `p_anno`  
INT, IN `p_duracion` INT, IN `p_genero` VARCHAR(50))  
BEGIN  
    IF p_titulo IS NULL OR p_titulo = '' THEN  
        SIGNAL SQLSTATE '45000'  
        SET MESSAGE_TEXT = 'El título no puede estar vacío';  
    END IF;  
  
    IF p_anno IS NOT NULL AND (p_anno < 1888 OR p_anno > YEAR(CURDATE())) THEN  
        SIGNAL SQLSTATE '45000'  
        SET MESSAGE_TEXT = 'El año no es válido';  
    END IF;  
  
    IF p_duracion IS NOT NULL AND p_duracion < 1 THEN  
        SIGNAL SQLSTATE '45000'  
        SET MESSAGE_TEXT = 'La duración debe ser mayor a 0 minutos';  
    END IF;  
  
    INSERT INTO MOVIE (titulo, director, anno, duracion, genero)  
    VALUES (p_titulo, p_director, p_anno, p_duracion, p_genero);  
END
```

```

CREATE PROCEDURE `ValidateUpdateMovie` (IN `p_id` INT, IN `p_titulo` VARCHAR(255), IN `p_director` VARCHAR(100),
IN `p_anno` INT, IN `p_duracion` INT, IN `p_genero` VARCHAR(50))
BEGIN
    IF NOT EXISTS (SELECT 1 FROM MOVIE WHERE id = p_id) THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'El ID de la película no existe';
    END IF;

    IF p_titulo IS NOT NULL AND p_titulo = '' THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'El título no puede estar vacío';
    END IF;

    IF p_anno IS NOT NULL AND (p_anno < 1888 OR p_anno > YEAR(CURDATE())) THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'El año no es válido';
    END IF;

    IF p_duracion IS NOT NULL AND p_duracion < 1 THEN
        SIGNAL SQLSTATE '45000'
        SET MESSAGE_TEXT = 'La duración debe ser mayor a 0 minutos';
    END IF;

    UPDATE MOVIE
    SET
        titulo = COALESCE(p_titulo, titulo),
        director = COALESCE(p_director, director),
        anno = COALESCE(p_anno, anno),
        duracion = COALESCE(p_duracion, duracion),
        genero = COALESCE(p_genero, genero)
    WHERE id = p_id;
END

```