

1. CONSULTAS

1.1. Consulta

```
SELECT numero, idpnsion, CONCAT(nombre, ', ', apellidos)
AS Nombre-completo
FROM preso
WHERE idpnsion LIKE '%POLY%' AND
fecha-ent IS NULL
ORDER BY 3 DESC;
```

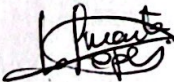
1.2. Consulta

```
SELECT G.nombre, G.rango, COUNT(V.numero) AS
presos-vigilados
FROM guardia G, vigilan V
WHERE G.codigo = V.codigo AND V.idpnsion = 'CENTRAL'
GROUP BY G.codigo, G.nombre, G.rango
HAVING COUNT(V.numero) > 1
ORDER BY G.nombre;
```

1.3. Consulta

```
DROP VIEW IF EXISTS guardias-vigilantes;
CREATE VIEW guardias-vigilantes AS
SELECT G.codigo, G.nombre, G.rango
FROM guardia G
WHERE G.codigo IN (SELECT DISTINCT (V.codigo)
FROM vigilan V)

ORDER BY G.nombre;
```

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* Consulta sobre la vista:

```
SELECT G.codigo, G.nombre, G.rango  
FROM guardias_vigilantes G, vigilan V, prision P  
WHERE G.codigo = V.codigo AND V.idprision = P.idprision  
AND P.nombre <> 'ISLA PERDIDA'  
ORDER BY G.codigo DESC;
```

* Asumiendo que 'ISLA PERDIDA' es el nombre. Con el idprision seria:

```
SELECT G.codigo, G.nombre, G.rango  
FROM guardias_vigilantes G  
WHERE G.codigo NOT IN (SELECT DISTINCT (V.codigo)  
                        FROM vigilan V  
                        WHERE V.idprision = 'ISLA PERDIDA')  
ORDER BY G.codigo DESC;
```

1.4. Consulta

```
SELECT PR.nombre, PR.ciudad, COUNT (P.numero) AS  
Total - presos  
FROM prision PR, preso P  
WHERE PR.idprision = P.idprision  
GROUP BY PR.idprision, PR.nombre, PR.ciudad  
HAVING COUNT (P.numero) >= ALL (SELECT COUNT (P1.numero)  
                                FROM preso P1  
                                GROUP BY P1.idprision);
```


2. EXTENSIONES

2.1 - Procedimientos y funciones

DROP FUNCTION IF EXISTS fBotas-por-Rango;
DELIMITER \$\$

CREATE FUNCTION fBotas-por-Rango (
 frango VARCHAR(10))

RETURNS INTEGER
NOT DETERMINISTIC
READS SQL DATA
BEGIN

IF (frango NOT IN (SELECT DISTINCT rango
 FROM guardia)) THEN

 SIGNAL SQLSTATE '45000' SET MESSAGE_TEXT='Error,
 valor de rango incorrecto';

END IF;

DECLARE total-botas INTEGER DEFAULT 0;

SELECT COUNT (*) INTO total-botas

FROM guardiabotas G, guardia GU

WHERE G.codigo = GU.codigo

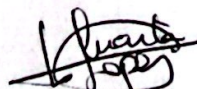
AND GU.rango = frango;

RETURN total-botas;

END \$\$

DELIMITER ;

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2.2. Triggers

- Trigger antes del borrado:

```
DROP TRIGGER IF EXISTS tAntesBorrado;  
DELIMITER $$
```

```
CREATE TRIGGER tAntesBorrado
```

```
BEFORE DELETE ON preso
```

```
FOR EACH ROW
```

```
BEGIN
```

```
IF ((SELECT COUNT (*) FROM preso  
WHERE idpension = OLD.idpension) = 1)
```

```
THEN
```

```
SIGNAL SQLSTATE '45000' SET MESSAGE-TEXT = 'No se  
puede borrar el preso';
```

```
END IF;
```

```
END $$
```

```
DELIMITER ;
```

- Trigger antes de la actualización;

```
DROP TRIGGER IF EXISTS tAntesActualizar;  
DELIMITER $$
```

```
CREATE TRIGGER tAntesActualizar
```

```
BEFORE UPDATE ON preso
```

```
FOR EACH ROW
```

```
BEGIN
```

```
IF (OLD.idpension < NEW.idpension)
```

```
AND
```

```
((SELECT COUNT (*) FROM preso WHERE idpension =  
OLD.idpension) = 1) THEN
```

```
SIGNAL SQLSTATE '45000' SET MESSAGE-TEXT = 'No  
se puede actualizar';
```

```
END IF;
```

```
END $$
```

```
DELIMITER ;
```

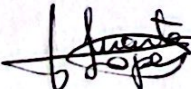

3. USUARIOS Y PERMISOS

3.1. Ejercicio 1

```
CREATE USER IF NOT EXISTS 'anastasio'@'localhost'  
IDENTIFIED BY 'perpetuo';  
GRANT ALL PRIVILEGES ON DBPasion.* TO  
'anastasio'@'localhost';  
FLUSH PRIVILEGES;
```

3.2. Ejercicio 2

```
CREATE USER IF NOT EXISTS 'terminator'@'252.0.33.55'  
IDENTIFIED BY 'T800';  
GRANT SELECT ON DBPasion.* TO 'terminator'@'252.0.33.55'  
WITH GRANT OPTION;  
FLUSH PRIVILEGES;
```

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PARTE 2. MONGODB

1. Consueta

```
var proy = { nombre: 1, rango: 1, -id: 0 }  
var valor = { $exists: false }  
var filtro1 = { preso: valor }  
var filtro2 = { "preso. prision": "ALCATRAZ" }  
var filtro-comb = { $or: [filtro1, filtro2] }  
var orden = { "preso. fecha": -1 }  
db.guardias.find(filtro-comb, proy).sort(orden)
```