-- ============================================

**-- DATU-BASEA SORTU ETA ERABILI**

-- ============================================

CREATE DATABASE unipayo;

USE unipayo;

-- ============================================

-- TAULAK

-- ============================================

CREATE TABLE irakasleak (

id\_irakasle INT AUTO\_INCREMENT PRIMARY KEY,

izena VARCHAR(50) NOT NULL,

abizena VARCHAR(50) NOT NULL,

posta VARCHAR(100),

telefonoa VARCHAR(20),

hiria VARCHAR(50)

);

CREATE TABLE ikasleak (

id\_ikasle INT AUTO\_INCREMENT PRIMARY KEY,

izena VARCHAR(50) NOT NULL,

abizena VARCHAR(50) NOT NULL,

posta VARCHAR(100),

telefonoa VARCHAR(20),

hiria VARCHAR(50)

);

CREATE TABLE ikasgaiak (

id\_ikasgaia INT AUTO\_INCREMENT PRIMARY KEY,

izena VARCHAR(100) NOT NULL,

id\_irakasle INT,

FOREIGN KEY (id\_irakasle) REFERENCES irakasleak(id\_irakasle)

);

CREATE TABLE notak (

id\_nota INT AUTO\_INCREMENT PRIMARY KEY,

id\_ikasle INT,

id\_ikasgaia INT,

nota DECIMAL(4,2),

FOREIGN KEY (id\_ikasle) REFERENCES ikasleak(id\_ikasle),

FOREIGN KEY (id\_ikasgaia) REFERENCES ikasgaiak(id\_ikasgaia)

);

-- ============================================

-- DATU LAGINAK

-- ============================================

-- Irakasleak

INSERT INTO irakasleak (izena, abizena, posta, telefonoa, hiria) VALUES

('Joseba', 'Lopez', 'joseba.lopez@payo.eus', '600123456', 'Eibar'),

('Yoritz', 'Azpeitia', 'yoritz.azpeitia@payo.eus', '600654321', 'Azpeitia');

-- Ikasleak

INSERT INTO ikasleak (izena, abizena, posta, telefonoa, hiria) VALUES

('Ander', 'Martin', 'martin.ander@payo.eus', '700111222', 'Berriz XD'),

('Eneko', 'Saez', 'saez.eneko@payo.eus', '700222333', 'Durango'),

('Iker', 'Petit', 'petit.iker@payo.eus', '700333444', 'Ermua'),

('Oier', 'Garcia', 'garcia.oier@payo.eus', '700444555', 'Soraluze');

-- Ikasgaiak

INSERT INTO ikasgaiak (izena, id\_irakasle) VALUES

('Hardware', 1),

('Software', 2);

-- Notak

INSERT INTO notak (id\_ikasle, id\_ikasgaia, nota) VALUES

(1, 1, 0), (1, 2, 0),

(2, 1, 10), (2, 2, 10),

(3, 1, 9), (3, 2, 8),

(4, 1, 5), (4, 2, 4);

-- ============================================

-- IKASLEENTZAKO VISTAK

-- ============================================

CREATE VIEW ikasle\_notak AS

SELECT i.id\_ikasle, i.izena AS ikaslea, g.izena AS ikasgaia, n.nota

FROM ikasleak i

JOIN notak n ON i.id\_ikasle = n.id\_ikasle

JOIN ikasgaiak g ON g.id\_ikasgaia = n.id\_ikasgaia;

CREATE VIEW ikasle\_ikasgaiak AS

SELECT i.id\_ikasle, i.izena AS ikaslea, g.izena AS ikasgaia, p.izena AS irakaslea

FROM ikasleak i

JOIN ikasgaiak g ON 1=1 -- ikasle guztiek ikasgai guztiak dituzte

JOIN irakasleak p ON g.id\_irakasle = p.id\_irakasle;

-- ============================================

-- ROLAK ETA ERABILTZAILEAK

-- ============================================

CREATE ROLE 'adminRola', 'irakasleRola', 'ikasleRola';

-- Baimenak

GRANT ALL PRIVILEGES ON unipayo.\* TO 'adminRola';

GRANT SELECT, INSERT, UPDATE ON unipayo.notak TO 'irakasleRola';

GRANT SELECT ON unipayo.ikasleak TO 'irakasleRola';

GRANT SELECT ON unipayo.ikasgaiak TO 'irakasleRola';

GRANT SELECT ON unipayo.ikasle\_notak TO 'ikasleRola';

GRANT SELECT ON unipayo.ikasle\_ikasgaiak TO 'ikasleRola';

-- Erabiltzaileak

CREATE USER 'admin'@'localhost' IDENTIFIED BY 'admin123';

GRANT 'adminRola' TO 'admin'@'localhost';

CREATE USER 'joseba.lopez'@'localhost' IDENTIFIED BY 'joseba123';

CREATE USER 'yoritz.azpeitia'@'localhost' IDENTIFIED BY 'yoritz123';

GRANT 'irakasleRola' TO 'joseba.lopez'@'localhost', 'yoritz.azpeitia'@'localhost';

CREATE USER 'martin.ander'@'localhost' IDENTIFIED BY 'ander123';

CREATE USER 'saez.eneko'@'localhost' IDENTIFIED BY 'eneko123';

CREATE USER 'petit.iker'@'localhost' IDENTIFIED BY 'iker123';

CREATE USER 'garcia.oier'@'localhost' IDENTIFIED BY 'oier123';

GRANT 'ikasleRola' TO 'martin.ander'@'localhost', 'saez.eneko'@'localhost', 'petit.iker'@'localhost', 'garcia.oier'@'localhost';

KONTSULTAK

SELECT id\_ikasle, izena, abizena, hiria

FROM ikasleak;

SELECT id\_irakasle, izena, abizena, posta, hiria

FROM irakasleak;

SELECT g.izena AS ikasgaia, i.izena AS irakaslea, i.abizena

FROM ikasgaiak g

JOIN irakasleak i ON g.id\_irakasle = i.id\_irakasle;

SELECT i.izena, i.abizena, ROUND(AVG(n.nota),2) AS batazbestekoa

FROM ikasleak i

JOIN notak n ON i.id\_ikasle = n.id\_ikasle

GROUP BY i.id\_ikasle

ORDER BY batazbestekoa DESC;

SELECT \* FROM ikasle\_notak;

SELECT g.izena AS ikasgaia, ROUND(AVG(n.nota),2) AS batazbestekoa

FROM notak n

JOIN ikasgaiak g ON n.id\_ikasgaia = g.id\_ikasgaia

GROUP BY g.id\_ikasgaia

ORDER BY batazbestekoa DESC;

SELECT i.izena, i.abizena, COUNT(g.id\_ikasgaia) AS ikasgai\_kop

FROM irakasleak i

LEFT JOIN ikasgaiak g ON i.id\_irakasle = g.id\_irakasle

GROUP BY i.id\_irakasle;

SELECT g.izena AS ikasgaia, n.nota

FROM notak n

JOIN ikasgaiak g ON n.id\_ikasgaia = g.id\_ikasgaia

JOIN ikasleak i ON n.id\_ikasle = i.id\_ikasle

WHERE i.izena = 'Eneko' AND i.abizena = 'Saez';

POR SI SALE MAL

DROP DATABASE wordpress;

SELECT User, Host FROM mysql.user;

DROP USER 'wp\_user'@'payo.eus';

DROP ROLE 'nombre\_rol';