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TRIGGERS AND VIEWS:
-- Use the new database Personal Details
USE PersonalDetails;
-- Creating WORKER Table and GROCERY Table
CREATE TABLE IF NOT EXISTS WORKER (
 empld INT PRIMARY KEY,
 empName VARCHAR(45),
 empSalary INT,
 empDomain VARCHAR(30),
 empAge INT,
 JoiningDate DATE
);
CREATE TABLE IF NOT EXISTS GROCERY (
 productId INT PRIMARY KEY,
 productName VARCHAR(30),
 productQty INT,
 price INT,
 expireDate DATE
);
```

-- Sample Insertion into WORKER Table

INSERT INTO WORKER (empld, empName, empSalary, empDomain, empAge, JoiningDate)

VALUES

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(20, 'Vignesh Kumar S', 25000, 'RPA', 23, '2019-12-21'), (17, 'Arjun', 18000, 'Mech', 24, '2018-08-12'),
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(10, 'Rajesh', 32000, 'DA', 27, '2017-07-12'),

(13, 'Suresh', 22000, 'DAT', 29, '2016-05-10'),

(15, 'Karthik', 35000, 'Al', 30, '2015-04-09');

-- Sample Insertion into GROCERY Table

INSERT INTO GROCERY (productId, productName, productQty, price, expireDate)

VALUES

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(10, 'Apple', 50, 120, '2023-12-21'),
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(11, 'Banana', 100, 40, '2024-05-18'),

(12, 'Carrot', 60, 60, '2024-06-10'),

(13, 'Tomato', 80, 30, '2024-01-22');

-- ----- TRIGGER for WORKER Table -----

-- Trigger to log changes when the JoiningDate of a worker is updated or inserted

DELIMITER //

CREATE TRIGGER trigger_work_JoiningDate

AFTER INSERT OR UPDATE ON WORKER

FOR EACH ROW
BEGIN
INSERT INTO worker_log (log_time, empId, empName, joining_date)
VALUES (CURRENT_DATE(), NEW.empld, NEW.empName, NEW.JoiningDate);
END //
DELIMITER;
TRIGGER for GROCERY Table
Trigger to log changes when the expireDate of a product is updated
DELIMITER //
CREATE TRIGGER trigger_grocery_expiry
AFTER UPDATE ON GROCERY
FOR EACH ROW
BEGIN
INSERT INTO grocery_log (log_time, productId, productName, expireDate)
VALUES (CURRENT_DATE(), NEW.productId, NEW.productName, NEW.expireDate)
END //
DELIMITER;
VIEWS
View to get the worker with the earliest joining date

```
CREATE VIEW WorkerWithEarliestJoining AS
SELECT *
FROM WORKER
WHERE JoiningDate = (SELECT MIN(JoiningDate) FROM WORKER);
SELECT * FROM WorkerWithEarliestJoining;
-- ----- STORED PROCEDURE for GROCERY -----
DELIMITER //
CREATE PROCEDURE getProductById(IN id INT)
BEGIN
 SELECT * FROM GROCERY
 WHERE productId = id;
END //
DELIMITER;
CALL getProductById(12);
DELIMITER //
CREATE PROCEDURE getAllProducts()
BEGIN
 SELECT * FROM GROCERY;
```

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END //
DELIMITER;
CALL getAllProducts();
DELIMITER //
CREATE PROCEDURE getExpiredProducts(IN year INT)
BEGIN
 SELECT * FROM GROCERY
 WHERE YEAR(expireDate) = year;
END //
DELIMITER;
CALL getExpiredProducts(2023);
-- Updating grocery expiration dates
UPDATE GROCERY SET expireDate = '2024-12-21' WHERE productId = 10;
UPDATE GROCERY SET expireDate = '2024-08-12' WHERE productId = 11;
UPDATE GROCERY SET expireDate = '2024-07-12' WHERE productId = 12;
SELECT * FROM GROCERY;
```

-- Selecting from WORKER table to verify the existing records

SELECT * FROM WORKER;

-- Select grocery products with price less than 100

SELECT * FROM GROCERY WHERE price < 100;