

```
DELIMITER $$
```

```
CREATE PROCEDURE sp_generer_emploi_du_temps(
```

```
    IN p_pole_id INT,
```

```
    IN p_numero_semaine INT,
```

```
    IN p_date_debut DATE,
```

```
    IN p_date_fin DATE,
```

```
    OUT p_edt_id INT,
```

```
    OUT p_nb_seances_generees INT
```

```
)
```

```
BEGIN
```

```
    DECLARE v_affectation_id INT;
```

```
    DECLARE v_groupe_id INT;
```

```
    DECLARE v_formateur_id INT;
```

```
    DECLARE v_module_id INT;
```

```
    DECLARE v_heures_semaine FLOAT;
```

```
    DECLARE v_done INT DEFAULT FALSE;
```

```
    DECLARE v_seance_id INT;
```

```
-- Curseur pour parcourir toutes les affectations actives du pôle
```

```
DECLARE cur_affectations CURSOR FOR
```

```
    SELECT
```

```
        am.id as affectation_id,
```

```
        am.groupe_id,
```

```
        am.formateur_id,
```

```
        am.module_id,
```

```
        COALESCE(rh.heures_semaine, 0) as heures_semaine
```

```
FROM AffectationModule am
```

```
JOIN Groupe g ON am.groupe_id = g.id
```

```
JOIN Filiere f ON g.filiere_id = f.id
```

```
LEFT JOIN RepartitionHebdomadaire rh ON am.id = rh.affectation_module_id
```

```
    AND rh.numero_semaine = p_numero_semaine
```

```
WHERE f.pole_id = p_pole_id
```

```
AND am.statut = 'en_cours'
```

```
AND am.masse_horaire_restant > 0;
```

```
DECLARE CONTINUE HANDLER FOR NOT FOUND SET v_done = TRUE;
```

```

DECLARE EXIT HANDLER FOR SQLEXCEPTION
BEGIN
    ROLLBACK;
    SET p_edt_id = -1;
    SET p_nb_seances_generees = 0;
END;

START TRANSACTION;

-- Créer l'emploi du temps en statut brouillon
INSERT INTO EmploiDuTemps (
    pole_id,
    numero_semaine,
    date_debut,
    date_fin,
    statut,
    version
) VALUES (
    p_pole_id,
    p_numero_semaine,
    p_date_debut,
    p_date_fin,
    'brouillon',
    '1.0'
);

SET p_edt_id = LAST_INSERT_ID();
SET p_nb_seances_generees = 0;

-- Parcourir toutes les affectations
OPEN cur_affectations;
read_loop: LOOP
    FETCH cur_affectations INTO
        v_affectation_id,
        v_groupe_id,
        v_formateur_id,
        v_module_id,

```

```

        v_heures_semaine;

    IF v_done THEN
        LEAVE read_loop;
    END IF;

    IF v_heures_semaine > 0 THEN
        CALL sp_creer_seance(
            p_edt_id,
            v_groupe_id,
            v_affectation_id,
            'lundi',
            '08:30:00',
            '11:00:00',
            NULL, -- salle à déterminer
            'presentiel',
            'cours',
            v_seance_id
        );

        IF v_seance_id > 0 THEN
            SET p_nb_seances_generees = p_nb_seances_generees + 1;
        END IF;
    END IF;
END LOOP;
CLOSE cur_affectations;

CALL sp_detector_conflits_emploi_temps(p_edt_id, @nb_conflits);

COMMIT;
END$$

DELIMITER ;

```