

## Script SQL de la BD Oracle utilisée par le site Web de M. ADA :

```
CREATE TABLE Congres
(codeCongres NUMBER, nom VARCHAR(50), dateDebut DATE, dateFin DATE,
ville VARCHAR(50), etat VARCHAR(20),
CONSTRAINT pk_Congres PRIMARY KEY (codeCongres),
CONSTRAINT nn_nom_Congres CHECK (nom IS NOT NULL),
CONSTRAINT nn_dateDebut_Congres CHECK (dateDebut IS NOT NULL),
CONSTRAINT nn_dateFin_Congres CHECK (dateFin IS NOT NULL),
CONSTRAINT ck_etat_Congres CHECK (etat = 'Proposé' OR etat = 'Annulé'
OR etat = 'Validé'));
```

```
CREATE TABLE Plages
(numeroPlage NUMBER, datePlage DATE, heureDebut DATE, codeCongres NUMBER,
CONSTRAINT pk_Plage PRIMARY KEY (numeroPlage),
CONSTRAINT nn_datePlage_Plages CHECK (datePlage IS NOT NULL),
CONSTRAINT nn_heureDebut_Plages CHECK (heureDebut IS NOT NULL),
CONSTRAINT nn_codeCongres_Plages CHECK (codeCongres IS NOT NULL),
CONSTRAINT fk_codeCongres_Plages FOREIGN KEY (codeCongres)
REFERENCES Congres (codeCongres));
```

```
CREATE TABLE Themes
(numeroTheme NUMBER, nom VARCHAR(50),
CONSTRAINT pk_Theme PRIMARY KEY (numeroTheme),
CONSTRAINT nn_nom_Theme CHECK (nom IS NOT NULL));
```

```
CREATE TABLE Traiter
(codeCongres NUMBER, numeroTheme NUMBER,
CONSTRAINT pk_Traiter PRIMARY KEY (codeCongres, numeroTheme),
CONSTRAINT fk_codeCongres_Traiter FOREIGN KEY (codeCongres)
REFERENCES Congres (codeCongres),
CONSTRAINT fk_numeroTheme_Traiter FOREIGN KEY (numeroTheme)
REFERENCES Themes (numeroTheme));
```

```
CREATE OR REPLACE TRIGGER trig_insert_Traiter
BEFORE INSERT ON Traiter
FOR EACH ROW
DECLARE
    v_nombreThemes NUMBER;
BEGIN
    SELECT COUNT(*) INTO v_nombreThemes
    FROM Traiter
    WHERE codeCongres = :NEW.codeCongres;
    IF v_nombreThemes >= 5 THEN
        RAISE_APPLICATION_ERROR (-20001, 'Trop de Thèmes dans le congrès');
    END IF;
END;
```

```
CREATE TABLE Conferenciers
(codeConferencier NUMBER, nom VARCHAR(30), prenom VARCHAR(30), adresse
VARCHAR(100), mail VARCHAR(50),
CONSTRAINT pk_Conferencier PRIMARY KEY (codeConferencier),
CONSTRAINT nn_nom_Conferencier CHECK (nom IS NOT NULL));
```

```
CREATE TABLE ConferenciersFrancais
(codeConferencier NUMBER, numeroSIREN VARCHAR(9),
CONSTRAINT pk_ConferenciersFrancais PRIMARY KEY (codeConferencier),
CONSTRAINT fk_codeConferencier_ConferenciersFrancais FOREIGN KEY (codeConferencier)
REFERENCES Conferencier (codeConferencier));
```

```

CREATE TABLE ConferenciersEtranger
(codeConferencier NUMBER, pays VARCHAR(20), parleFrancais CHAR(1),
CONSTRAINT pk_ConferenciersEtrangers PRIMARY KEY (codeConferencier),
CONSTRAINT fk_codeConferencier_ConferenciersEtrangers FOREIGN KEY (codeConferencier)
REFERENCES Conferencier(codeConferencier));

```

```

CREATE TABLE EtreCompetant
(codeConferencier NUMBER, numeroTheme NUMBER,
CONSTRAINT pk_EtreCompetant PRIMARY KEY (codeConferencier, numeroTheme),
CONSTRAINT fk_codeConferencier_EtreComp FOREIGN KEY (codeConferencier)
REFERENCES Conferenciers(codeConferencier),
CONSTRAINT fk_numeroTheme_EtreComp FOREIGN KEY (numeroTheme)
REFERENCES Themes(numeroTheme));

```

```

CREATE TABLE Propositions
(numeroPlage NUMBER, codeConferencier NUMBER, numeroTheme NUMBER, typeConference
VARCHAR(25), presentation LONG,
CONSTRAINT pk_Proposition PRIMARY KEY (numeroPlage, codeConferencier),
CONSTRAINT nn_numeroTheme_Propositions CHECK (numeroTheme IS NOT NULL),
CONSTRAINT ck_typeConference_Propositions CHECK (typeConference IN
('Presentation', 'Workshop', 'Serious Game'));
CONSTRAINT fk_numeroPlage_Propositions FOREIGN KEY (numeroPlage)
REFERENCES Plages(numeroPlage),
CONSTRAINT fk_code_numero_Propositions FOREIGN KEY (codeConferencier, numeroTheme)
REFERENCES EtreCompetant(codeConferencier, numeroTheme));

```

```

CREATE OR REPLACE TRIGGER trig_insert_Propositions
BEFORE INSERT ON Propositions
FOR EACH ROW
DECLARE
    v_nombreThemes NUMBER;
BEGIN
    SELECT COUNT(*) INTO v_nombreThemes
    FROM Traiter t
    JOIN Plages p ON p.codeCongres = t.codeCongres
    WHERE t.numeroTheme = :NEW.numeroTheme
    AND p.numeroPlage = :NEW.numeroPlage;
    IF v_nombreThemes = 0 THEN
        RAISE_APPLICATION_ERROR (-20001, 'Ce thème ne peut pas être abordé à cette plage');
    END IF;
END;

```