

```
CREATE TABLE Editeurs (  
    Num_Editeur INT PRIMARY KEY,  
    Nom VARCHAR(50) NOT NULL,  
    Prenom VARCHAR(50) NOT NULL,  
    Rue VARCHAR(50) NOT NULL,  
    Localite VARCHAR(50) NOT NULL  
);
```

```
CREATE TABLE Categorie (  
    Num_Categorie INT PRIMARY KEY,  
    Nom VARCHAR(50) NOT NULL,  
    Categorie_parent INT REFERENCES Categorie(Num_Categorie)  
);
```

```
CREATE TABLE Auteur (  
    id_Auteur INT PRIMARY KEY,  
    Nom VARCHAR(50) NOT NULL,  
    Date_de_naissance DATE NOT NULL  
);
```

```
CREATE TABLE Livres (  
    NumLivre INT PRIMARY KEY,  
    Titre VARCHAR(50) NOT NULL,  
    ISBN INT NOT NULL UNIQUE,
```

```
NbPages INT NOT NULL,  
Langue VARCHAR(50) NOT NULL,  
Cote INT NOT NULL,  
Date_de_publication DATE NOT NULL,  
Num_Editeurs INT REFERENCES Editeurs(Num_Editeur) NOT NULL,  
Num_Categorie INT REFERENCES Categorie(Num_Categorie) NOT NULL  
);
```

```
CREATE TABLE Ecriture (  
    id_Auteur INT REFERENCES Auteur(id_Auteur) NOT NULL,  
    NumLivre INT REFERENCES Livres(NumLivre) NOT NULL,  
    primary key(id_Auteur, NumLivre)  
);
```

DROP TABLE dans le sens inverse de la création

```
INSERT INTO Categorie(num_categorie, nom, categorie_parent)  
VALUES (4, 'SQL', 3);
```

```
INSERT INTO Editeurs (num_editeur, Nom, Prenom, Rue, Localite)  
VALUES (1, 'Gallimard', ' ', 'Rue Sebastien-Bottin 5', '75328 Paris Cedex 07');
```

```
INSERT INTO Auteur (id_auteur, nom, date_de_naissance)
VALUES (1, 'J.K. Rowling', TO_DATE('310765', 'ddmmyy'));
```

```
SELECT *
FROM Auteur
```

Labo 2 :

1. ALTER TABLE TYPECONTRAT
MODIFY ty_code NOT NULL ;
2. SELECT CA_NOM, PRENOM
FROM CANDIDAT
WHERE datenaissance LIKE '%93' ;
3. SELECT titre
FROM JOB
WHERE EXTRACT(year FROM publie) < 2019;
4. SELECT CA_NOM, PRENOM
FROM candidat
WHERE CA_CODEPOSTAL > 4300 ;
5. SELECT et_nom
FROM etablissement
WHERE et_nom LIKE 'Universit%' ;
6. SELECT titre
FROM job
WHERE description LIKE '%restaurant%' ;

7. SELECT prenom
FROM candidat
WHERE prenom LIKE '%e' ;
8. SELECT ca_nom, prenom
FROM candidat
WHERE email IS NULL ;
9. SELECT ca_nom, prenom
FROM candidat
WHERE ca_numero < ca_codepostal ;
10. SELECT titre
FROM job
WHERE MONTHS_BETWEEN(SYSDATE, publie) < 4;
11. SELECT ca_nom, prenom
FROM candidat
WHERE ca_localite LIKE 'Battice' ;
12. SELECT ca_nom, prenom
FROM candidat
WHERE ca_localite in('Herve', 'Charleroi') ;
13. SELECT ca_nom, prenom, EXTRACT(YEAR FROM SYSDATE) - EXTRACT(YEAR FROM
datenaissance)
FROM candidat ;
14. SELECT DISTINCT ca_localite
FROM candidat
WHERE prenom LIKE 'M%' ;
15. SELECT titre
FROM job
WHERE publie = LAST_DAY(publie)
16. SELECT TO_CHAR(publie, 'DAY')
FROM job ;
17. SELECT ca_nom, prenom
FROM candidat
WHERE TO_CHAR(datenaissance, 'D') = 1;

18.

```
SELECT id_typecontrat, ty_libelle
FROM typecontrat
WHERE ty_code LIKE 'CD%';
```
19.

```
SELECT titre
FROM job
WHERE EXTRACT(DAY FROM publie) = 28 ;
```
20.

```
SELECT ca_nom
FROM candidat
WHERE EXTRACT(YEAR FROM datenaissance) BETWEEN 1990 AND 2000;
```
21.

```
SELECT ca_nom, prenom
FROM candidat
WHERE TO_CHAR(datenaissance, 'MM') = 12;
```
22.

```
SELECT ent_nom
FROM entreprise
ORDER BY ent_nom #On peut ajouter ASC mais il est implicite ici
```
23.

```
SELECT ty_libelle
FROM typecontrat
WHERE ty_code NOT LIKE 'CD_';
```
24.

```
UPDATE candidat
SET ca_nom = REPLACE(ca_nom, 'Roussel', 'Rousselle')
WHERE ca_nom LIKE 'Roussel';
```
25.

```
UPDATE qualification
SET qu_libelle = UPPER(SUBSTR(qu_libelle, 1, 1) || SUBSTR(qu_libelle, 2))
#Les || veulent dire 'CONCATENATION'
WHERE SUBSTR(qu_libelle, 1, 1) <> UPPER(SUBSTR(qu_libelle, 1, 1))
```
26.

```
UPDATE qualification
SET qu_libelle = UPPER(SUBSTR(qu_libelle, 1, 1)) || LOWER(SUBSTR(qu_libelle, 2))
WHERE SUBSTR(qu_libelle, 2) <> LOWER(SUBSTR(qu_libelle, 2))
```
27.

```
ALTER TABLE entreprise
ADD ent_codepostal INT;
ADD ent_localite VARCHAR(50);

UPDATE entreprise
SET ent_codepostal = 1000
WHERE id_entreprise = 13;

UPDATE entreprise
SET ent_localite = 'Bruxelles'
WHERE id_entreprise = 13;
```

28. UPDATE candidat

```
SET ca_rue = 'rue des chars', ca_numero = 48, ca_codepostal = 4602, ca_localite = 'Cheratte'  
WHERE ca_nom = 'Leroy' AND prenom = 'Nathalie';
```

29. DELETE FROM Nationalite

```
WHERE nat_libelle in('Albanie', 'Biélorussie', 'Saint-Marin', 'Liechtenstein');
```

Labo 3 :

1. SELECT c.ca_nom, c.prenom, n.nat_libelle
FROM candidat c
JOIN nationalite n ON n.id_nationalite = c.id_nationalite;
2. SELECT j.titre, e.ent_nom
FROM entreprise e
JOIN job j ON j.id_entreprise = e.id_entreprise
WHERE e.ent_nom IN ('IPES', 'Axa', 'RenoBati');
3. SELECT DISTINCT c.ca_nom, c.prenom, p.datepostule
FROM candidat c
JOIN postuler p ON c.id_candidat = p.id_candidat
WHERE p.datepostule > TO_DATE('18052019', 'ddmmyyyy');
4. SELECT 'Le candidat ' || c.prenom || c.ca_nom || ' a postulé le ' || p.datepostule || ' à ' ||
j.titre AS Proposition
FROM candidat c
JOIN postuler p ON c.id_candidat = p.id_candidat
JOIN job j ON j.id_job = p.id_job
WHERE p.datepostule > TO_DATE('18052019', 'ddmmyyyy');
5. SELECT c.prenom, c.ca_nom
FROM candidat c
JOIN etatcivil ec ON c.id_ec = ec.id_etatcivil
WHERE c.id_ec = 1;
6. SELECT j.titre, p.datepostule
FROM job j
LEFT OUTER JOIN postuler p ON j.id_job = p.id_job
WHERE p.datepostule IS NULL ;

7.

```
SELECT c.prenom, c.ca_nom, j.titre, p.datepostule
FROM candidat c
JOIN postuler p ON c.id_candidat = p.id_candidat
JOIN job j ON j.id_job = p.id_job
WHERE c.ca_nom IN('Bernard', 'Thomas') AND c.prenom IN('Marie', 'Pierre')
ORDER BY p.datepostule;
```
8.

```
SELECT j.titre
FROM job j
LEFT OUTER JOIN REQUERIR r ON r.id_job = j.id_job
WHERE r.id_job IS NULL;
```
9.

```
SELECT j.titre
FROM job j
JOIN necessiter n ON j.id_job = n.id_job
JOIN qualification q ON n.id_qualification = q.id_qualification
WHERE q.qu_libelle LIKE 'Master%';
```
10.

```
SELECT j.titre
FROM job j
LEFT OUTER JOIN donner d ON j.id_job = d.id_job
WHERE d.id_job IS NULL;
```
11.

```
SELECT c1.ca_nom, c1.prenom, c2.ca_nom, c2.prenom
FROM candidat c1
JOIN postuler p1 ON c1.id_candidat = p1.id_candidat
JOIN postuler p2 ON p1.id_job = p2.id_job
JOIN candidat c2 ON p2.id_candidat = c2.id_candidat
WHERE c1.id_candidat < c2.id_candidat ;
```
12.

```
SELECT c.ca_nom, j.titre, p.datepostule
FROM candidat c
JOIN postuler p ON p.id_candidat = c.id_candidat
JOIN job j ON j.id_job = p.id_job;
```
13.

```
SELECT j.titre, av.av_libelle
FROM job j
JOIN donner d ON j.id_job = d.id_job
JOIN avantage av ON d.id_avantage = av.id_avantage
JOIN typecontrat tc ON j.id_typecontrat = tc.id_typecontrat
WHERE av.av_libelle = 'Voiture' AND tc.ty_code = 'CDI';
```

14. SELECT c.ca_nom, c.prenom
FROM conduire cond
JOIN candidat c ON c.id_candidat = cond.id_candidat
JOIN permisconduire p ON p.id_permis = cond.id_permis
WHERE p.categorie = 'Voitures' AND cond.dateobtention < SYSDATE - 3650
ORDER BY cond.dateobtention
15. SELECT c.ca_nom, c.prenom, q.qu_libelle
FROM candidat c1
JOIN postuler p1 ON c1.id_candidat = p1.id_candidat
JOIN postuler p2 ON p1.id_job = p2.id_job
JOIN candidat c2 ON p2.id_candidat = c2.id_candidat
JOIN postuler p ON c.id_candidat = p.id_candidat
JOIN posseder poss ON c.id_candidat = poss.id_candidat
JOIN qualification q ON poss.id_qualification = q.id_qualification
JOIN qualification q2 ON poss.id_qualification = q2.id_qualification
WHERE c1.id_candidat < c2.id_candidat;
16. SELECT ent.ent_nom
FROM candidat c
JOIN postuler p ON p.id_candidat = c.id_candidat
JOIN job j ON j.id_job = p.id_job
JOIN entreprise ent ON ent.id_entreprise = j.id_entreprise
WHERE c.ca_nom = 'Rousselle' AND c.prenom = 'Martine' ;
17. SELECT j.titre, TO_NUMBER(SUBSTR(tr.tr_libelle, INSTR(tr.tr_libelle, '-'), +1)) AS Salaire
FROM job j
JOIN tranchesalariale tr ON tr.id_tranchesalariale = j.id_tranchesalariale
ORDER BY TO_NUMBER(SUBSTR(tr.tr_libelle, INSTR(tr.tr_libelle, '-'), +1)) DESC
18. SELECT j.titre
FROM job j
JOIN necessiter n ON j.id_job = n.id_job
JOIN qualification q ON n.id_qualification = q.id_qualification
WHERE q.qu_libelle = 'Marketing';
- 19.
- 20.
- 21.
- 22.