

## TP SQL Final

# 1.0 - TABLE EMPLOYEES

## 1.1 - Création

```
CREATE TABLE employees (  
employeeId INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL,  
postId INTEGER NOT NULL,  
firstName TEXT NOT NULL,  
lastName TEXT NOT NULL,  
email TEXT NOT NULL,  
password TEXT NOT NULL,  
isPresent NUMBER(1),  
salary INTEGER NOT NULL,  
schedule TEXT NOT NULL,  
breakTimes TEXT NOT NULL,  
dateHire TEXT NOT NULL,  
endContract TEXT NOT NULL  
)
```

## 1.2 - Remplir

```
INSERT INTO employees (postId, firstName, lastName, email, password, isPresent, salary, schedule, breakTimes, dateHire, endContract)  
VALUES (3, "Emma", "Johnson", "emma.johnson@gmail.com", "P@ssw0rd123!Yes", "Oui", 2700, "9h-17h", "11h15", "25/07/2000", "15/05/2024"),  
(2, "Liam", "Smith", "liam.smith@gmail.com", "Qwerty@1234No", "Non", 3500, "9h-17h", "11h15", "18/09/1998", "20/10/2025"),  
(5, "Olivia", "Brown", "olivia.brown@gmail.com", "Pass!2345Yes", "Oui", 2000, "9h-17h", "11h15", "02/03/1996", "05/08/2024"),  
(1, "Noah", "Davis", "noah.davis@gmail.com", "AbCd$567EfGh@8901", "Oui", 3100, "9h-17h", "11h15", "12/11/2002", "10/09/2026"),  
(4, "Ava", "Miller", "ava.miller@gmail.com", "1A!b2C@d3E$4Fg5H", "Oui", 2600, "9h-17h", "11h15", "19/08/1997", "23/04/2024"),  
(1, "Ethan", "Johnson", "ethan.johnson@gmail.com", "R$5tUvW9xYz@2bQp4", "Oui", 1800, "9h-17h", "11h15", "09/12/2001", "05/06/2025"),  
(5, "Amelia", "Lee", "amelia.lee@gmail.com", "L!8kM2nQp#1rWs$5t", "Oui", 3500, "9h-17h", "11h15", "14/02/1999", "30/11/2023"),  
(3, "Lucas", "Anderson", "lucas.anderson@gmail.com", "XyZ@3pU7rW*9s2Vq1", "Oui", 2950, "9h-17h", "11h15", "23/06/1995", "12/03/2024"),  
(2, "Mia", "Smith", "mia.smith@gmail.com", "G#9xYz$1tVq2S*3u", "Non", 1700, "9h-17h", "11h15", "30/04/1997", "15/08/2025"),  
(4, "James", "Wilson", "james.wilson@gmail.com", "N@5uWxZ9r2tV#1qYz", "Oui", 3900, "9h-17h", "11h15", "07/11/2000", "18/10/2026"),  
(1, "Sophia", "Clark", "sophia.clark@gmail.com", "O8yZ#2qYz1sW*9rVt", "Oui", 1350, "9h-17h", "11h15", "20/09/1996", "22/07/2024"),  
(5, "Benjamin", "Adams", "benjamin.adams@gmail.com", "MnO8#2qYz1sW*9rVt", "Oui", 2900, "9h-17h", "11h15", "04/03/1998", "19/11/2023"),  
(2, "Charlotte", "Baker", "charlotte.baker@gmail.com", "P2rW*9s#1qYz5tVq", "Non", 3200, "9h-17h", "11h15", "12/08/1999", "25/09/2025"),  
(3, "Alexander", "Hill", "alexander.hill@gmail.com", "O8yZ#2qYz1sW*9rVt", "Oui", 2600, "9h-17h", "11h15", "09/10/1997", "14/02/2024"),  
(1, "Amelia", "Young", "amelia.young@gmail.com", "Q8yZ#2qYz1sW*9rVt", "Oui", 2300, "9h-17h", "11h15", "26/01/1996", "30/05/2024"),  
(4, "Liam", "Barnes", "liam.barnes@gmail.com", "S3tVq2sW*9r#1qYz5t", "Oui", 1550, "9h-17h", "11h15", "15/07/1995", "10/11/2023"),  
(3, "Evelyn", "Ward", "evelyn.ward@gmail.com", "G2rW9sW9rYz1s#1q5tVq", "Non", 1850, "9h-17h", "11h15", "22/02/2000", "05/01/2026"),  
(5, "Lucas", "Fisher", "lucas.fisher@gmail.com", "LmN2qYz#1sW*9rVtVq1s", "Oui", 3650, "9h-17h", "11h15", "18/04/2002", "15/09/2024"),  
(2, "Ella", "Harrison", "ella.harrison@gmail.com", "S2rW9rVt1sW9rYz1q5t", "Oui", 2900, "9h-17h", "11h15", "02/06/2003", "20/08/2025"),  
(1, "Henry", "Bryant", "henry.bryant@gmail.com", "KlM2n#1qYz1sW*9rVtVq5t", "Non", 2050, "9h-17h", "11h15", "11/11/1998", "12/07/2026"),  
(4, "Ava", "Cole", "ava.cole@gmail.com", "N2qYz1sW9r#1q5tVq2rW9", "Oui", 2600, "9h-17h", "11h15", "30/09/2001", "17/03/2024"),  
(3, "Oliver", "Richardson", "oliver.richardson@gmail.com", "R#1q5tVq2sW*9rVtN2qYz", "Oui", 3000, "9h-17h", "11h15", "25/05/1999", "05/12/2024"),  
(5, "Chloe", "Collins", "chloe.collins@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9", "Non", 3400, "9h-17h", "11h15", "16/08/1997", "28/02/2025"),  
(2, "Mason", "Murray", "mason.murray@gmail.com", "QyZ1sW9rVt1sW9rVtN2qYz1s", "Oui", 1900, "9h-17h", "11h15", "14/12/1996", "15/06/2026"),  
(1, "Harper", "Porter", "harper.porter@gmail.com", "Z1sW9rVt1sW9rVtN2qYz1sW*", "Non", 1750, "9h-17h", "11h15", "03/01/2000", "20/11/2023"),  
(4, "Evelyn", "Ferguson", "evelyn.ferguson@gmail.com", "QyZ1sW9rVt1sW9rVtN2qYz1sW*", "Oui", 2650, "9h-17h", "11h15", "22/10/1999", "25/12/2025"),  
(3, "Logan", "Cox", "logan.cox@gmail.com", "N2qYz1sW9rVt1sW9rVtVq2rW*9", "Oui", 3300, "9h-17h", "11h15", "10/06/2002", "18/09/2024"),  
(5, "Zoey", "Daniels", "zoey.daniels@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Non", 1550, "9h-17h", "11h15", "08/04/2004", "30/06/2026"),  
(2, "Lincoln", "Carr", "lincoln.carr@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 3400, "9h-17h", "11h15", "19/03/2003", "05/05/2024"),  
(1, "Aria", "Graham", "aria.graham@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 2300, "9h-17h", "11h15", "28/12/2005", "18/08/2024"),  
(4, "James", "Reed", "james.reed@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 2900, "9h-17h", "11h15", "07/07/2000", "22/09/2023"),  
(3, "Madison", "Grant", "madison.grant@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 1850, "9h-17h", "11h15", "14/10/1996", "12/11/2024"),  
(5, "Carter", "Wallace", "carter.wallace@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Non", 2150, "9h-17h", "11h15", "29/09/2001", "03/04/2026"),  
(2, "Nova", "Ward", "nova.ward@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 3650, "9h-17h", "11h15", "03/11/1998", "28/05/2025"),  
(1, "Miles", "Fisher", "miles.fisher@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 3000, "9h-17h", "11h15", "11/05/1997", "18/12/2023"),  
(4, "Zara", "Collins", "zara.collins@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 2500, "9h-17h", "11h15", "23/02/2000", "05/08/2024"),  
(3, "Asher", "Ray", "asher.ray@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 1800, "9h-17h", "11h15", "08/09/1996", "25/10/2026"),  
(5, "Scarlett", "Chapman", "scarlett.chapman@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Non", 2900, "9h-17h", "11h15", "17/06/1999", "14/09/2025"),  
(2, "Ezra", "Fletcher", "ezra.fletcher@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 3450, "9h-17h", "11h15", "06/04/2002", "28/02/2024"),  
(1, "Nova", "Floyd", "nova.floyd@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 2700, "9h-17h", "11h15", "13/01/2003", "30/07/2024"),  
(4, "Atticus", "Nelson", "atticus.nelson@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 3100, "9h-17h", "11h15", "21/07/1998", "10/11/2025"),  
(3, "Isla", "Cooper", "isla.cooper@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Non", 1300, "9h-17h", "11h15", "09/12/2001", "05/06/2026"),  
(5, "Arlo", "Henderson", "arlo.henderson@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 2300, "9h-17h", "11h15", "26/01/2004", "10/08/2026"),  
(2, "Luna", "Simmons", "luna.simmons@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 1850, "9h-17h", "11h15", "20/03/2005", "15/05/2025"),  
(1, "Mateo", "Evans", "mateo.evans@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Non", 2650, "9h-17h", "11h15", "28/08/2006", "20/09/2024"),  
(4, "Hazel", "Griffiths", "hazel.griffiths@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 1700, "9h-17h", "11h15", "17/02/2007", "12/11/2023"),  
(3, "Finn", "Wells", "finn.wells@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Non", 3450, "9h-17h", "11h15", "12/05/2008", "06/03/2025"),  
(5, "Aurora", "Bryant", "aurora.bryant@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 2200, "9h-17h", "11h15", "19/09/2009", "08/10/2026"),  
(2, "Wyatt", "Dunn", "wyatt.dunn@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Oui", 2900, "9h-17h", "11h15", "23/03/2010", "14/12/2024"),  
(1, "Lily", "Sharp", "lily.sharp@gmail.com", "Yz1sW9rVt1sW9rVtVq2rW*9tN2q", "Non", 2550, "9h-17h", "11h15", "10/07/2011", "05/04/2025");
```

## 2.0 - TABLE DEPARTEMENTS

### 2.1 - Création

```
CREATE TABLE departements (  
departementId INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL,  
serviceName TEXT NOT NULL,  
staffNumber INTEGER NOT NULL,  
managerId INTEGER NOT NULL,  
FOREIGN KEY (managerId) REFERENCES managers (managerId)  
)
```

### 2.2 - Remplir

```
INSERT INTO departements (serviceName, staffNumber, managerId)  
VALUES      ("Administration", 5, 8),  
("Human Resource", 3, 16),  
("Marketing", 6, 49),  
("Employees", 32, 11);
```

### 3.0 - TABLE POSTS

#### 3.1 - Création

```
CREATE TABLE posts (  
  postId INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL,  
  departementId INTEGER NOT NULL,  
  postName TEXT NOT NULL,  
  managerId INTEGER NOT NULL,  
  FOREIGN KEY (managerId) REFERENCES managers (managerId)  
)
```

#### 3.2 - Remplir

```
INSERT INTO posts (departementId, postName, managerId)  
VALUES      (1, "Comptable", 8),  
(2, "Happiness manager", 16),  
(3, "Publicitaire", 49),  
(4, "Boucher", 11);
```

## 4.0 - TABLE MANAGERS

### 4.1 - Création

```
CREATE TABLE managers (  
managerId INTEGER PRIMARY KEY AUTOINCREMENT NOT NULL,  
employeeId INTEGER NOT NULL,  
FOREIGN KEY (employeeId) REFERENCES employees (employeeId)  
)
```

### 4.2 - Remplir

```
INSERT INTO managers (employeeId)  
VALUES      (8),  
(16),  
(49),  
(11);
```