Company Database

Department
- 🔑 Dept_No TINYINT
- 🔷 Dept_Name VARCHAR(45)
- 🔷 No. of Employees SMALLINT

Indexes
- PRIMARY
- Dept_No_UNIQUE

1:n b/w dept and employees

Employee
- 🔑 Employee_ID SMALLINT
- 🔷 First Name VARCHAR(45)
- 🔷 Last Name VARCHAR(45)
- 🔷 DoB DATE
- 🔷 Salary INT
- 🔶 Dept_No TINYINT
- 🔶 Branch_ID TINYINT
- 🔷 Age INT

Indexes
- PRIMARY
- Employee_ID_UNIQUE
- Dept_No
- Branch_ID_idx

1:1 b/w manager(employee) and branch

Age is a derived attribute, derived from DoB

Branch
- 🔑 Branch_ID TINYINT
- 🔷 Branch_Name VARCHAR(45)
- 🔷 No. of Employees SMALLINT
- 🔷 Location VARCHAR(45)
- 🔶 Manager_ID SMALLINT

Indexes
- Manager_ID_UNIQUE
- PRIMARY

1:n b/w branch and employees

Dependants table is a weak entitiy.

Dependants
- Employee_Employee_ID SMALLINT
- 🔷 Dependant_Relationship VARCHAR(45)
- 🔷 Dependant_Name VARCHAR(45)

Indexes
- PRIMARY
- fk_Dependants_Employee1_idx

m:n relationship b/w Employees and projects

Project_handlers
- Project_ID TINYINT
- Employee_ID SMALLINT

Indexes
- Employee_ID_idx
- Project_ID_idx
- PRIMARY

Projects
- 🔑 Project_ID TINYINT
- 🔷 Project_Name VARCHAR(45)

Indexes
- PRIMARY
- Project_ID_UNIQUE

Project Handlers table is also a weak entity

The two primary keys, together make a composite key.