

Create an ER diagram 1 for the given "employee" database.

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## Employee database

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**emp\_record\_table:** It contains the information of all the employees.

- EMP\_ID – ID of the employee
- FIRST\_NAME – First name of the employee
- LAST\_NAME – Last name of the employee
- GENDER – Gender of the employee
- ROLE – Post of the employee
- DEPT – Field of the employee
- EXP – Years of experience the employee has
- COUNTRY – Country in which the employee is presently living
- CONTINENT – Continent in which the country is
- SALARY – Salary of the employee
- EMP\_RATING – Performance rating of the employee
- MANAGER\_ID – The manager under which the employee is assigned
- PROJ\_ID – The project on which the employee is working or has worked on

**Proj\_table:** It contains information about the projects.

- PROJECT\_ID – ID for the project
- PROJ\_Name – Name of the project
- DOMAIN – Field of the project
- START\_DATE – Day the project began
- CLOSURE\_DATE – Day the project was or will be completed
- DEV\_QTR – Quarter in which the project was scheduled
- STATUS – Status of the project currently

**Data\_science\_team:** It contains information about all the employees in the Data Science team.

- EMP\_ID – ID of the employee
- FIRST\_NAME – First name of the employee
- LAST\_NAME – Last name of the employee
- GENDER – Gender of the employee
- ROLE – Post of the employee
- DEPT – Field of the employee
- EXP – Years of experience the employee has
- COUNTRY – Country in which the employee is presently living

- CONTINENT – Continent in which the country is

## Drawing an ER Model

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### 1. Number of Entity: 3

- Emp\_record
- Project
- Data\_science\_team

### 2. The attributes for each entity:

#### – Emp\_record:

- EMP\_ID
- FIRST\_NAME
- LAST\_NAME
- GENDER
- ROLE
- DEPT
- EXP
- COUNTRY
- CONTINENT
- SALARY
- EMP\_RATING
- MANAGER\_ID
- PROJ\_ID

#### – Project:

- PROJECT\_ID
- PROJ\_Name
- DOMAIN
- START\_DATE
- CLOSURE\_DATE
- DEV\_QTR
- STATUS

#### – Data\_science\_team:

- EMP\_ID
- FIRST\_NAME
- LAST\_NAME
- GENDER

- ROLE
- DEPT
- EXP
- COUNTRY
- CONTINENT

### 3. Relationships:

- **Employee:**

- Project => **One to Many**
- Performance on each project => **One to Many**
- Rate by manager => **One to One**
- Salary => **One to One**
- Team => **One to One**

- **Manager:**

- Employee => **One to Many**
- Rating => **One to Many**
- Project => **One to Many**
- Team => **One to Many**