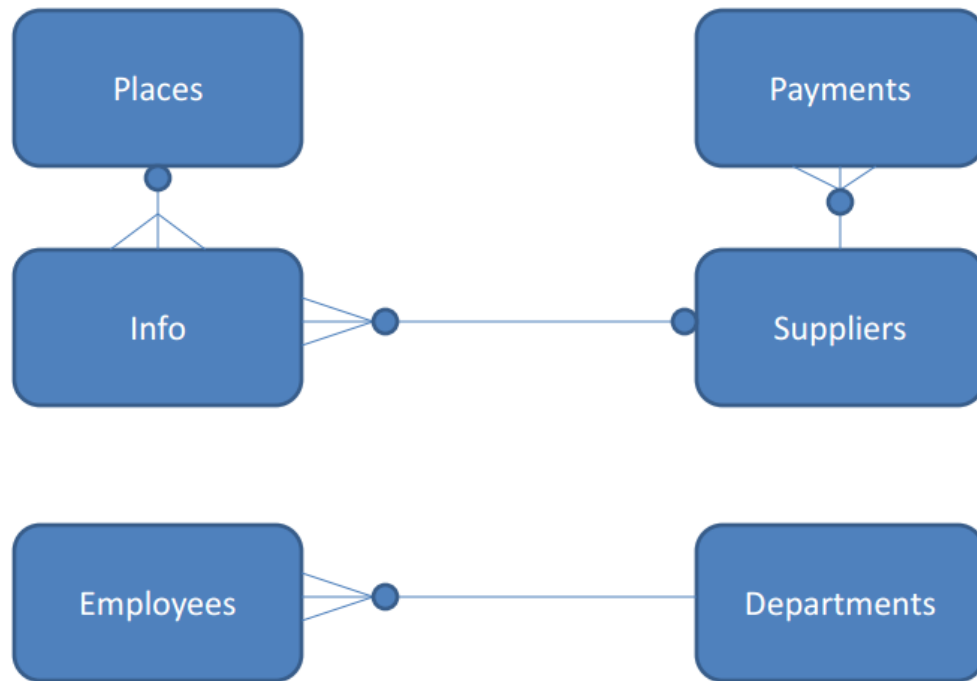


Names Inc Schema



Description About Tables in Database 'NamesInc':

```
mysql> show tables;
+-----+
| Tables_in_NamesInc |
+-----+
| Department          |
| Employees           |
| Info                |
| Payement            |
| Place               |
| Supplier             |
+-----+
6 rows in set (0.00 sec)
```

Table1 : Place

```
mysql> describe Place;
```

Field	Type	Null	Key	Default	Extra
PlaceID	int(11)	NO	PRI	NULL	auto_increment
Latitude	decimal(10,5)	YES		NULL	
Longitude	decimal(10,5)	YES		NULL	
Elevation	varchar(50)	YES		NULL	
Population	float	YES		NULL	
FeatureCode	varchar(6)	YES		NULL	
Type	varchar(100)	YES		NULL	
Country	varchar(100)	YES		NULL	
Partial_Name	varchar(50)	YES		NULL	

9 rows in set (0.00 sec)

Table 2: Info

```
mysql> describe Info;
```

Field	Type	Null	Key	Default	Extra
InfoID	int(11)	NO	PRI	NULL	auto_increment
Name	varchar(50)	YES		NULL	
Language	varchar(50)	YES		NULL	
Status	varchar(50)	YES		NULL	
Standard	varchar(50)	YES		NULL	
SupplierID	varchar(20)	YES		NULL	
DateSupplied	date	YES		NULL	

7 rows in set (0.00 sec)

Info contains foreign keys Latitude, Longitude, Elevation, Population

Table 3: Supplier

```
mysql> describe Supplier;
```

Field	Type	Null	Key	Default	Extra
SupplierID	int(11)	NO	PRI	NULL	auto_increment
Name	varchar(50)	YES		NULL	
Country	varchar(50)	YES		NULL	
ReliabilityScore	float	YES		NULL	
ContactInfo	varchar(15)	YES		NULL	

5 rows in set (0.00 sec)

Table 4: Payment

```
mysql> describe Payment;
```

Field	Type	Null	Key	Default	Extra
SupplierID	int(11)	NO	PRI	NULL	auto_increment
Date	date	YES		NULL	
Amount	decimal(10,2)	YES		NULL	

3 rows in set (0.00 sec)

Table 5: Departments

```
mysql> Describe Department;
```

Field	Type	Null	Key	Default	Extra
DeptID	int(11)	NO	PRI	NULL	auto_increment
DeptName	varchar(50)	YES		NULL	
DeptHeadID	varchar(10)	YES		NULL	
DeptAA	varchar(50)	YES		NULL	
ParentDeptID	varchar(50)	YES		NULL	

5 rows in set (0.00 sec)

Department contains foreign keys From Table Employee such as Location and DeptType

Table 6: Employee

```
mysql> Describe Employees;
```

Field	Type	Null	Key	Default	Extra
EmpID	int(11)	NO	PRI	NULL	auto_increment
Name	varchar(10)	YES		NULL	
TaxID	varchar(11)	YES		NULL	
Country	varchar(50)	YES		NULL	
HireDate	date	YES		NULL	
Birthdate	date	YES		NULL	
Salary	decimal(10,2)	YES		NULL	
Bonus	decimal(10,2)	YES		NULL	

8 rows in set (0.00 sec)

Access Rights/Constraints

- All Rights are GRANTED to Employees VIEW rights to see place and name information
- Only HR employees have been GRANT PRIVILEGES to VIEW HR info
- HR employees HAVE PRIVILEGES to change information in the HR Portion of the NamesInc Database
- Managers(*field DeptHeadID*) can UPDATE their employee compensation
- Every employee (in Employees table) exists in some department

Query/Reports

1. Find the elevation and population of a place.

```
mysql> Select Elevation, Population FROM Place where PlaceID= 1099241;
+-----+-----+
| Elevation | Population |
+-----+-----+
| 280      | 290000    |
+-----+-----+
1 row in set (0.01 sec)
```

2. Find a place by a partial name.

```
mysql> Select PlaceID From Place where Partial_Name = "SFO";
+-----+
| PlaceID |
+-----+
| 1816671 |
+-----+
1 row in set (0.00 sec)
```

3. Find a place in a latitude/longitude box (within a range of latitudes/longitudes)

```
mysql> Select PlaceID From Place where Latitude = 57.98348 and Longitude = 78.94752;
+-----+
| PlaceID |
+-----+
| 1099241 |
+-----+
1 row in set (0.00 sec)
```

4. Find a place by any of its names, listing its type, latitude, longitude, country, population and elevation.

```
mysql> Select PlaceID From Place where Latitude = 57.98348 AND Longitude = 78.94752 AND Partial_Name = "FK" AND TYPE = "Sea" AND Country= "GERMANY";
+-----+
| PlaceID |
+-----+
| 1099241 |
+-----+
1 row in set (0.00 sec)
```

The remaining queries demo you can find in Provisions file