

Document:

Entities:

1. Departments:

Has two attributes (Department name, Department ID)

- Department name: for each department.
- Department ID: This is the primary key for each department.

2. Employees:

Has three attributes (SSN,name,salary)

- SSN: each employee has SSN number which is the primary key.
- Name: each employee has name.
- Salary: each employee has salary.

3. Halls:

Has four attributes (Hall ID, Time, Chair ID, Number of chairs)

- Hall ID : there is id for each hall which is the primary key
- Time : each hall is available duration
- Chair ID : each chair in the hall has ID
- Number of chairs : each hall has number of chairs

4. Movies :

Has 4 entities (type – name – duration – date)

- Type : each movie has type
- Name : each movie has name
- Duration: each movie has limit duration
- Date: each movie has date

5. Ticket: each customer buy a ticket to enter the cinema , has Two attributes (Ticket ID , Price)

- Ticket ID: each ticket has id which is primary key.
- Price: each ticket has a price.

Relations:

1. There is a relation between Department and Employee

The relation is one to many

Department → Employee (1 to N)

2. There is a relation between (employee – halls) → (N to 1)

3. There is a relation between (Halls – movie) → (N to 1)

4. There is a relation between (Halls – Ticket) → (1 to N)