

MY CITY INFORMATION

Abstract:

Nowadays software application plays a major role in each and every field to improve their carrier. In our state there are many people accessing website if they want to know about city information. It helps user to view city information in an easier way. Users can view the data in anytime and anywhere. The idea behind this application is to help people to find different services ,entertainment and other facilities available in there city and this application is aslo useful for the tourist to know where are hotels,transport facilities, tourist places etc.. .This application can also be used to find different places in near by areas by using current location or landmark.

Requirement Analysis

List of Tables:

- 1.MyCity
- 2.Hotels
- 3.Tourist Places
- 4.Metro Stations
- 5.Has_Metro_Stations
- 6.Has_Tourist_places
- 7.Has_Hotels
- 8.Services

List of attributes with domain types:

MyCity

City name :cityname-varchar2(15)

Current location/Landmark:Landmark-varchar2(15)

Service

City name:cityname-varchar2(15)

Services available:Services-varchar2(15)

Hotels

Hotel Name:hotel_name-varchar2(15)

Hotel phone number :phone_number-number(10)

Hotel Rating : rating-number(2) (rating between 1 and 10)

Hotel location:landmark-varchar2(15)

Has_Hotels

City Name:cityname-varchar2(15)

Hotel Name:hotel_name-varhar2(15)

MetroStations

Metro Station name:station_name-varchar2(15)

Metro Station Timmings:timings-varchar2(15)

Metro Station Landmark/Location:landmark-varchar2(15)

Has_Metro_Stations

City Name:cityname-varchar2(15)

Metro Station Name:Station_name-varhar2(15)

Tourist_places:

Tourist place name:place_name -varchar2(15)

Tourist place rating: rating -number(2)

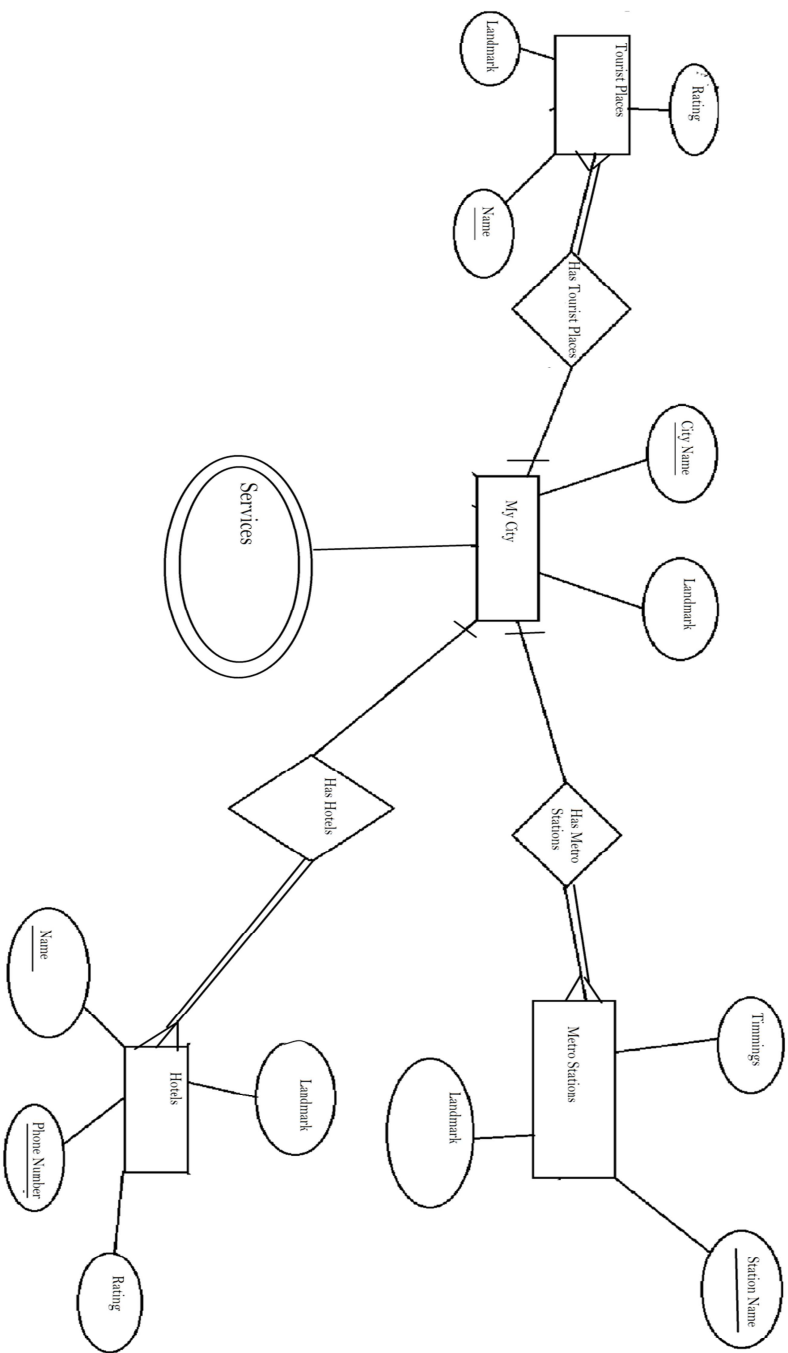
Tourist place location:landmark-varchar2(15)

Has_Tourist_places:

City Name:cityname-varchar2(15)

Tourist Place Name:Place_name-varhar2(15)

ER DIAGRAM:



Mapping cardinalities and participation constraints

->A city can have more than one metro stations so there is one to many mapping cardinalities between my city and metro stations.

->Similarly a city can have more than one hotels and tourist places so there is one to many mapping cardinalities mycity and hotels as well as mycity and tourist places.

->A city may have or may not have metro stations ,tourist places,hotels so my city participates partially in relations has_hotels,has_metroStations,has_tourist_places;

->Every hotel,metrostation,tourist place will have a city so they totally participate in relations.

Mapping cardinalities and participation constraints

->A city can have more than one metro stations so there is one to many mapping cardinalities between my city and metro stations.

->Similarly a city can have more than one hotels and tourist places so there is one to many mapping cardinalities mycity and hotels as well as mycity and tourist places.

->A city may have or may not have metro stations ,tourist places,hotels so my city participates partially in relations has_hotels,has_metroStations,has_tourist_places;

->Every hotel,metrostation,tourist place will have a city so they totally participate in relations.

```
SQL> create table mycity(cityname varchar2(15) primary key,landmark varchar2(15) not null);
```

Table created.

SQL> desc mycity;

| Name | Null? | Type |
|----------|----------|--------------|
| ----- | | |
| CITYNAME | NOT NULL | VARCHAR2(15) |
| LANDMARK | NOT NULL | VARCHAR2(15) |

SQL> create table services(cityname varchar2(15),services varchar2(15) not null ,foreign
key(cityname) references mycity);

Table created.

SQL> desc services;

| Name | Null? | Type |
|----------|----------|--------------|
| ----- | | |
| CITYNAME | | VARCHAR2(15) |
| SERVICES | NOT NULL | VARCHAR2(15) |

SQL> create table tourist_places(name varchar2(15) primary key,city varchar2(15) not null, landmark
varchar2(15) not null,rating number(2));

Table created.

SQL> alter table tourist_places add constraint check_rating check(rating between 1 and 10);

Table altered.

SQL> desc tourist_places;

| Name | Null? | Type |
|-------|-------|------|
| ----- | | |

| | |
|----------|-----------------------|
| NAME | NOT NULL VARCHAR2(15) |
| CITY | NOT NULL VARCHAR2(15) |
| LANDMARK | NOT NULL VARCHAR2(15) |
| RATING | NUMBER(2) |

SQL> alter table tourist_places rename column name to place_name;

Table altered.

SQL> create table has_tourist_places(cityname varchar2(15),place_name varchar2(15) ,foreign key(cityname) references mycity,foreign key(place_name) references tourist_places);

Table created.

SQL> desc has_tourist_places;

| Name | Null? | Type |
|------------|-------|--------------|
| ----- | | |
| CITYNAME | | VARCHAR2(15) |
| PLACE_NAME | | VARCHAR2(15) |

SQL> create table metrostations(station_name varchar2(15) primary key,landmark varchar2(15) not null, timings varchar2(10));

Table created.

SQL> desc metrostations;

| Name | Null? | Type |
|--------------|-------|-----------------------|
| ----- | | |
| STATION_NAME | | NOT NULL VARCHAR2(15) |

| | |
|----------|-----------------------|
| LANDMARK | NOT NULL VARCHAR2(15) |
| TIMMINGS | VARCHAR2(10) |

```
SQL> create table has_metro_stations(cityname varchar2(15),station_name varchar2(15) ,foreign
key(cityname) references mycity,foreign key(station_name) references metrostations);
```

Table created.

```
SQL> desc has_metro_stations;
```

| Name | Null? | Type |
|--------------|-------|--------------|
| ----- | | |
| CITYNAME | | VARCHAR2(15) |
| STATION_NAME | | VARCHAR2(15) |

```
SQL> desc has_metro_stations;
```

| Name | Null? | Type |
|--------------|-------|--------------|
| ----- | | |
| CITYNAME | | VARCHAR2(15) |
| STATION_NAME | | VARCHAR2(15) |

```
SQL> create table hotels(hotel_name varchar2(15) primary key,landmark varchar2(15) not
null,phone_number number(10),rating number(2));
```

Table created.

```
SQL> alter table hotels add constraints ckey_rating check(rating between 1 and 10);
```

Table altered.


```
SQL> desc hotels;
```

| Name | Null? | Type |
|--------------|----------|--------------|
| ----- | | |
| HOTEL_NAME | NOT NULL | VARCHAR2(15) |
| LANDMARK | NOT NULL | VARCHAR2(15) |
| PHONE_NUMBER | | NUMBER(10) |
| RATING | | NUMBER(2) |

```
SQL> create table has_hotels(cityname varchar2(15),hotel_name varchar2(15),foreign key(cityname)
references mycity,foreign key(hotel_name) references hotels);
```

Table created.

```
SQL> desc has_hotels;
```

| Name | Null? | Type |
|------------|-------|--------------|
| ----- | | |
| CITYNAME | | VARCHAR2(15) |
| HOTEL_NAME | | VARCHAR2(15) |

```
SQL> insert into mycity values('&cityname','&landmark');
```

Enter value for cityname: hyderabad

Enter value for landmark: M.J.Market

```
old 1: insert into mycity values('&cityname','&landmark')
```

```
new 1: insert into mycity values('hyderabad','M.J.Market')
```

1 row created.

```
SQL> /
```

Enter value for cityname: mumbai

Enter value for landmark: j.b.nagar

old 1: insert into mycity values('&cityname','&landmark')

new 1: insert into mycity values('mumbai','j.b.nagar')

1 row created.

SQL> /

Enter value for cityname: new delhi

Enter value for landmark: moti nagar

old 1: insert into mycity values('&cityname','&landmark')

new 1: insert into mycity values('new delhi','moti nagar')

1 row created.

SQL> /

Enter value for cityname: chennai

Enter value for landmark: ashok nagar

old 1: insert into mycity values('&cityname','&landmark')

new 1: insert into mycity values('chennai','ashok nagar')

1 row created.

SQL> insert into mycity values('&cityname','&landmark');

Enter value for cityname: vizag

Enter value for landmark: kailasagiri

old 1: insert into mycity values('&cityname','&landmark')

```
new 1: insert into mycity values('vizag','kailasagiri')
```

1 row created.

```
SQL> select * from mycity;
```

| CITYNAME | LANDMARK |
|----------|----------|
|----------|----------|

| | |
|-----------|------------|
| hyderabad | M.J.Market |
|-----------|------------|

| | |
|--------|-----------|
| mumbai | j.b.nagar |
|--------|-----------|

| | |
|-----------|------------|
| new delhi | moti nagar |
|-----------|------------|

| | |
|---------|-------------|
| chennai | ashok nagar |
|---------|-------------|

| | |
|-------|-------------|
| vizag | kailasagiri |
|-------|-------------|

```
SQL> insert into services values('&cityname','&services');
```

Enter value for cityname: hyderabad

Enter value for services: metrorailways

```
old 1: insert into services values('&cityname','&services')
```

```
new 1: insert into services values('hyderabad','metrorailways')
```

1 row created.

```
SQL> insert into services values('&cityname','&services');
```

Enter value for cityname: hyderabad

Enter value for services: hotels

```
old 1: insert into services values('&cityname','&services')
```

```
new 1: insert into services values('hyderabad','hotels')
```

1 row created.

SQL> /

Enter value for cityname: hyderabad

Enter value for services: touristplaces

old 1: insert into services values('&cityname','&services')

new 1: insert into services values('hyderabad','touristplaces')

1 row created.

SQL> insert into services values('&cityname','&services');

Enter value for cityname: vizag

Enter value for services: hotels

old 1: insert into services values('&cityname','&services')

new 1: insert into services values('vizag','hotels')

1 row created.

SQL> /

Enter value for cityname: vizag

Enter value for services: touristplaces

old 1: insert into services values('&cityname','&services')

new 1: insert into services values('vizag','touristplaces')

1 row created.

```
SQL> insert into services values('&cityname','&services');
```

Enter value for cityname: mumbai

Enter value for services: metrorailways

```
old 1: insert into services values('&cityname','&services')
```

```
new 1: insert into services values('mumbai','metrorailways')
```

1 row created.

```
SQL> /
```

Enter value for cityname: mumbai

Enter value for services: hotels

```
old 1: insert into services values('&cityname','&services')
```

```
new 1: insert into services values('mumbai','hotels')
```

1 row created.

```
SQL> /
```

Enter value for cityname: mumbai

Enter value for services: touristplaces

```
old 1: insert into services values('&cityname','&services')
```

```
new 1: insert into services values('mumbai','touristplaces')
```

1 row created.

```
SQL> /
```

Enter value for cityname: chennai

Enter value for services: metrorailways

old 1: insert into services values('&cityname','&services')

new 1: insert into services values('chennai','metrorailways')

1 row created.

SQL> /

Enter value for cityname: chennai

Enter value for services: touristplaces

old 1: insert into services values('&cityname','&services')

new 1: insert into services values('chennai','touristplaces')

1 row created.

SQL> /

Enter value for cityname: chennai

Enter value for services: hotels

old 1: insert into services values('&cityname','&services')

new 1: insert into services values('chennai','hotels')

1 row created.

SQL> /

Enter value for cityname: new delhi

Enter value for services: hotels

old 1: insert into services values('&cityname','&services')

```
new 1: insert into services values('new delhi','hotels')
```

1 row created.

```
SQL> /
```

```
Enter value for cityname: new delhi
```

```
Enter value for services: touristplaces
```

```
old 1: insert into services values('&cityname','&services')
```

```
new 1: insert into services values('new delhi','touristplaces')
```

1 row created.

```
SQL> /
```

```
Enter value for cityname: new delhi
```

```
Enter value for services: metrorailways
```

```
old 1: insert into services values('&cityname','&services')
```

```
new 1: insert into services values('new delhi','metrorailways')
```

1 row created.

```
SQL> select * from services;
```

| CITYNAME | SERVICES |
|-----------|---------------|
| hyderabad | metrorailways |
| hyderabad | hotels |
| hyderabad | touristplaces |

| | |
|---------|---------------|
| vizag | hotels |
| vizag | touristplaces |
| mumbai | metrorailways |
| mumbai | hotels |
| mumbai | touristplaces |
| chennai | metrorailways |
| chennai | touristplaces |
| chennai | hotels |

| CITYNAME | SERVICES |
|----------|----------|
|----------|----------|

| | |
|-----------|---------------|
| new delhi | hotels |
| new delhi | touristplaces |
| new delhi | metrorailways |

14 rows selected.

SQL> /

Enter value for station_name: MG Bus Stand

Enter value for landmak: osmania mc

Enter value for timings: 9am-11pm

old 1: insert into metrostations values('&station_name','&landmak','&timings')

new 1: insert into metrostations values('MG Bus Stand','osmania mc','9am-11pm')

1 row created.

SQL> /

Enter value for station_name: gandhibhavan ms

Enter value for landmak: mj market

Enter value for timings: 9 am-11pm

old 1: insert into metrostations values('&station_name','&landmak','&timings')

new 1: insert into metrostations values('gandhibhavan ms','mj market','9 am-11pm')

1 row created.

SQL> /

Enter value for station_name: RajivChowk MS

Enter value for landmak: central park

Enter value for timings: 7 am-11 pm

old 1: insert into metrostations values('&station_name','&landmak','&timings')

new 1: insert into metrostations values('RajivChowk MS','central park','7 am-11 pm')

1 row created.

SQL> /

Enter value for station_name: chakala

Enter value for landmak: j.b nagar

Enter value for timings: 7 am-11pm

old 1: insert into metrostations values('&station_name','&landmak','&timings')

new 1: insert into metrostations values('chakala','j.b nagar','7 am-11pm')

1 row created.

SQL> /

Enter value for station_name: azad nagar ms

Enter value for landmak: azad postoffice

Enter value for timings: 7 am-11 pm

old 1: insert into metrostations values('&station_name','&landmak','&timings')

new 1: insert into metrostations values('azad nagar ms','azad postoffice','7 am-11 pm')

1 row created.

SQL> /

Enter value for station_name: LittleMount ms

Enter value for landmak: Saidapet

Enter value for timings: 6am-10 pm

old 1: insert into metrostations values('&station_name','&landmak','&timings')

new 1: insert into metrostations values('LittleMount ms','Saidapet','6am-10 pm')

1 row created.

SQL> select * from metrostations;

| STATION_NAME | LANDMARK | TIMMINGS |
|--------------|----------|----------|
|--------------|----------|----------|

| | | |
|--------------|------------|----------|
| MG Bus Stand | osmania mc | 9am-11pm |
|--------------|------------|----------|

| | | |
|-----------------|-----------|-----------|
| gandhibhavan ms | mj market | 9 am-11pm |
|-----------------|-----------|-----------|

| | | |
|---------------|--------------|------------|
| RajivChowk MS | central park | 7 am-11 pm |
|---------------|--------------|------------|

| | | |
|---------|-----------|-----------|
| chakala | j.b nagar | 7 am-11pm |
|---------|-----------|-----------|

| | | |
|---------------|-----------------|------------|
| azad nagar ms | azad postoffice | 7 am-11 pm |
|---------------|-----------------|------------|

LittleMount ms Saidapet 6am-10 pm

6 rows selected.

```
SQL> insert into has_metro_stations values('&cityname','&station_name');
```

Enter value for cityname: hyderabad

Enter value for station_name: MG Bus Stand

```
old 1: insert into has_metro_stations values('&cityname','&station_name')
```

```
new 1: insert into has_metro_stations values('hyderabad','MG Bus Stand')
```

1 row created.

```
SQL> /
```

Enter value for cityname: mumbai

Enter value for station_name: chakala

```
old 1: insert into has_metro_stations values('&cityname','&station_name')
```

```
new 1: insert into has_metro_stations values('mumbai','chakala')
```

1 row created.

```
SQL> /
```

Enter value for cityname: chennai

Enter value for station_name: LittleMount ms

```
old 1: insert into has_metro_stations values('&cityname','&station_name')
```

```
new 1: insert into has_metro_stations values('chennai','LittleMount ms')
```

1 row created.

```
SQL> insert into has_metro_stations values('&cityname','&station_name');
```

Enter value for cityname: hyderabad

Enter value for station_name: gandhibhavan ms

```
old 1: insert into has_metro_stations values('&cityname','&station_name')
```

```
new 1: insert into has_metro_stations values('hyderabad','gandhibhavan ms')
```

1 row created.

```
SQL> /
```

Enter value for cityname: new delhi

Enter value for station_name: RajivChowk MS

```
old 1: insert into has_metro_stations values('&cityname','&station_name')
```

```
new 1: insert into has_metro_stations values('new delhi','RajivChowk MS')
```

1 row created.

```
SQL> /
```

Enter value for cityname: mumbai

Enter value for station_name: azad nagar ms

```
old 1: insert into has_metro_stations values('&cityname','&station_name')
```

```
new 1: insert into has_metro_stations values('mumbai','azad nagar ms')
```

1 row created.

```
SQL> select * from has_metro_stations;
```

| CITYNAME | STATION_NAME |
|----------|--------------|
|----------|--------------|

| | |
|-----------|-----------------|
| hyderabad | MG Bus Stand |
| mumbai | chakala |
| chennai | LittleMount ms |
| hyderabad | gandhibhavan ms |
| new delhi | RajivChowk MS |
| mumbai | azad nagar ms |

```
SQL> insert into tourist_places values('&place_name','&landmark',&rating);
```

Enter value for place_name: charminar

Enter value for landmark: oldcity

Enter value for rating: 9

```
old 1: insert into tourist_places values('&place_name','&landmark',&rating)
```

```
new 1: insert into tourist_places values('charminar','oldcity',9)
```

1 row created.

```
SQL> /
```

Enter value for place_name: birla temple

Enter value for landmark: assembly

Enter value for rating: 8.9

```
old 1: insert into tourist_places values('&place_name','&landmark',&rating)
```

```
new 1: insert into tourist_places values('birla temple','assembly',8.9)
```

1 row created.

SQL> /

Enter value for place_name: golconda

Enter value for landmark: ramdevguda

Enter value for rating: 9.5

old 1: insert into tourist_places values('&place_name','&landmark','&rating)

new 1: insert into tourist_places values('golconda','ramdevguda',9.5)

1 row created.

SQL> /

Enter value for place_name: hussain sagar

Enter value for landmark: necklace road

Enter value for rating: 7.5

old 1: insert into tourist_places values('&place_name','&landmark','&rating)

new 1: insert into tourist_places values('hussain sagar','necklace road',7.5)

1 row created.

SQL> /

Enter value for place_name: gatewayofindia

Enter value for landmark: Colaba

Enter value for rating: 9.6

old 1: insert into tourist_places values('&place_name','&landmark','&rating)

new 1: insert into tourist_places values('gatewayofindia','Colaba',9.6)

1 row created.

SQL> /

Enter value for place_name: INS Kursura

Enter value for landmark: R.K.BeachRoad

Enter value for rating: 8.6

old 1: insert into tourist_places values('&place_name','&landmark','&rating')

new 1: insert into tourist_places values('INS Kursura','R.K.BeachRoad',8.6)

1 row created.

SQL> select * from tourist_places;

| PLACE_NAME | LANDMARK | RATING |
|----------------|---------------|--------|
| charminar | oldcity | 9 |
| birla temple | assembly | 9 |
| golconda | ramdevguda | 10 |
| hussain sagar | necklace road | 8 |
| gatewayofindia | Colaba | 10 |
| INS Kursura | R.K.BeachRoad | 9 |

6 rows selected.

SQL> insert into has_tourist_places values('&cityname','&place_name');

Enter value for cityname: hyderabad

Enter value for place_name: golconda

old 1: insert into has_tourist_places values('&cityname','&place_name')

new 1: insert into has_tourist_places values('hyderabad','golconda')

1 row created.

SQL> /

Enter value for cityname: vizag

Enter value for place_name: INS Kursura

old 1: insert into has_tourist_places values('&cityname','&place_name')

new 1: insert into has_tourist_places values('vizag','INS Kursura')

1 row created.

SQL> /

Enter value for cityname: mumbai

Enter value for place_name: gatewayofindia

old 1: insert into has_tourist_places values('&cityname','&place_name')

new 1: insert into has_tourist_places values('mumbai','gatewayofindia')

1 row created.

SQL> /

Enter value for cityname: hyderabad

Enter value for place_name: birla temple

old 1: insert into has_tourist_places values('&cityname','&place_name')

new 1: insert into has_tourist_places values('hyderabad','birla temple')

1 row created.

SQL> /

Enter value for cityname: hyderabad

Enter value for place_name: hussain sagar

old 1: insert into has_tourist_places values('&cityname','&place_name')

new 1: insert into has_tourist_places values('hyderabad','hussain sagar')

1 row created.

SQL> insert into has_tourist_places values('&cityname','&place_name');

Enter value for cityname: hyderabad

Enter value for place_name: charminar

old 1: insert into has_tourist_places values('&cityname','&place_name')

new 1: insert into has_tourist_places values('hyderabad','charminar')

1 row created.

SQL> select * from has_tourist_places;

| CITYNAME | PLACE_NAME |
|----------|------------|
|----------|------------|

| | |
|-----------|----------|
| hyderabad | golconda |
|-----------|----------|

| | |
|-------|-------------|
| vizag | INS Kursura |
|-------|-------------|

| | |
|--------|----------------|
| mumbai | gatewayofindia |
|--------|----------------|

| | |
|-----------|--------------|
| hyderabad | birla temple |
|-----------|--------------|

| | |
|-----------|---------------|
| hyderabad | hussain sagar |
|-----------|---------------|

| | |
|-----------|-----------|
| hyderabad | charminar |
|-----------|-----------|

6 rows selected.