

MY CITY INFORMATION

Abstract:

Nowadays software application plays a major role in each and every field to improve their carrier. In our state as well as in other states there are many people accessing website if they want to know about city information. It helps user to view city information in 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 also useful for the tourist to know where are hotels ,transport facilities like metro stations ,tourist places etc.. This application can also be used to find different places in near by area by using current location or landmark. This application can also be used to know rating of different places , timings and other details.

Requirement Analysis:

List of Tables:

- 1) MyCity
- 2) Hotels
- 3) TouristPlaces
- 4) MetroStations
- 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)

Services:

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-varchar2(15)

MetroStations:

Metro Station name: station_name-varchar2(15)

Metro Station Timmings: timmings-varchar2(15)

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

Has_Metro_Stations:

City Name: cityname-varchar2(15)

Metro Station Name: Station_name-varchar2(15)

Tourist_Places:

Tourist place name:place_name -varchar2(15)

Tourist place rating: rating -number(2)

Tourist place location:landmark-varchar2(15)

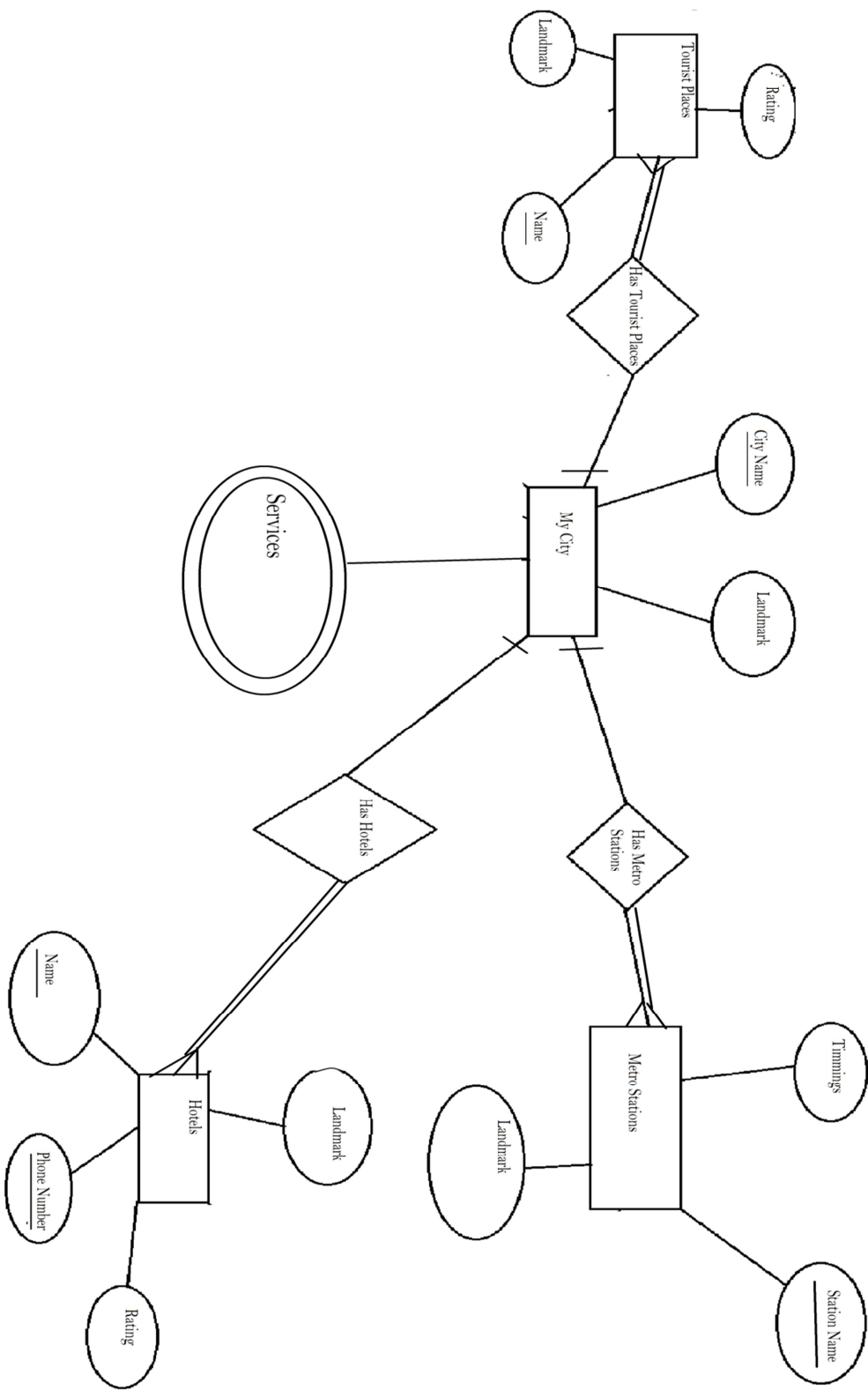
Has_Tourist_Places:

Tourist place name:place_name -varchar2(15)

Tourist place rating: rating -number(2)

Tourist place location:landmark-varchar2(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.

DDL Commands:

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

```
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);
```

DBMS ASSIGNMENT 1

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.

DBMS ASSIGNMENT 1

```
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)

Name : D Yasho Vardhan Reddy
Roll no: 1602-18-737-120

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)

DML Commands:

```
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

DBMS ASSIGNMENT 1

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')

Name : D Yasho Vardhan Reddy

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DBMS ASSIGNMENT 1

```
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

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DBMS ASSIGNMENT 1

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')

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DBMS ASSIGNMENT 1

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.

Name : D Yasho Vardhan Reddy

Roll no: 1602-18-737-120

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.

DBMS ASSIGNMENT 1

```
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.

Name : D Yasho Vardhan Reddy

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DBMS ASSIGNMENT 1

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')

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DBMS ASSIGNMENT 1

```
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.

DBMS ASSIGNMENT 1

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

Name : D Yasho Vardhan Reddy

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DBMS ASSIGNMENT 1

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')
```

Name : D Yasho Vardhan Reddy

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DBMS ASSIGNMENT 1

```
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

Name : D Yasho Vardhan Reddy

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DBMS ASSIGNMENT 1

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

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DBMS ASSIGNMENT 1

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

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DBMS ASSIGNMENT 1

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')

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DBMS ASSIGNMENT 1

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.

Name : D Yasho Vardhan Reddy

Roll no: 1602-18-737-120

DBMS ASSIGNMENT 1

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

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DBMS ASSIGNMENT 1

hyderabad charminar

6 rows selected.

```
SQL> insert into hotels  
values('&hotel_name','&landmark','&phone_number','&rating');
```

Enter value for hotel_name: amrutha castle

Enter value for landmark: khairtabad

Enter value for phone_number: 04044433888

Enter value for rating: 8.0

```
old 1: insert into hotels  
values('&hotel_name','&landmark','&phone_number','&rating')
```

```
new 1: insert into hotels values('amrutha castle','khairtabad',04044433888,8.0)
```

1 row created.

```
SQL> /
```

Enter value for hotel_name: haridwar

Enter value for landmark: troop bazaar

Enter value for phone_number: 04024656718

Enter value for rating: 8.5

```
old 1: insert into hotels  
values('&hotel_name','&landmark','&phone_number','&rating')
```

```
new 1: insert into hotels values('haridwar ','troop bazaar',04024656718,8.5)
```

1 row created.

```
SQL> /
```

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Enter value for hotel_name: Rajasthan Place

Enter value for landmark: daba gardens

Enter value for phone_number: 09000869622

Enter value for rating: 7.5

old 1: insert into hotels

values('&hotel_name','&landmark','&phone_number','&rating')

new 1: insert into hotels values('Rajasthan Place','daba gardens',09000869622,7.5)

1 row created.

SQL> /

Enter value for hotel_name: zotel

Enter value for landmark: dandebagh

Enter value for phone_number: 02248962270

Enter value for rating: 8.6

old 1: insert into hotels

values('&hotel_name','&landmark','&phone_number','&rating')

new 1: insert into hotels values('zotel','dandebagh',02248962270,8.6)

1 row created.

SQL> select * from hotels;

HOTEL_NAME	LANDMARK	PHONE_NUMBER	RATING
------------	----------	--------------	--------

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DBMS ASSIGNMENT 1

amrutha castle	khairtabad	4044433888	8
haridwar	troop bazaar	4024656718	9
Rajasthan Place	daba gardens	9000869622	8
zostel	dandebagh	2248962270	9

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

Enter value for cityname: hyderabad

Enter value for hotel_name: amrutha castle

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

```
new 1: insert into has_hotels values('hyderabad','amrutha castle')
```

1 row created.

```
SQL> /
```

Enter value for cityname: mumbai

Enter value for hotel_name: zostel

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

```
new 1: insert into has_hotels values('mumbai','zostel')
```

1 row created.

```
SQL> /
```

Enter value for cityname: vizag

Enter value for hotel_name: Rajasthan Place

Name : D Yasho Vardhan Reddy

Roll no: 1602-18-737-120

DBMS ASSIGNMENT 1

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

new 1: insert into has_hotels values('vizag','Rajasthan Place')

1 row created.

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

Enter value for cityname: hyderabad

Enter value for hotel_name: haridwar

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

new 1: insert into has_hotels values('hyderabad','haridwar')

1 row created.

SQL> select * from has_hotels;

CITYNAME	HOTEL_NAME
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hyderabad	amrutha castle
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mumbai	zostel
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vizag	Rajasthan Place
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hyderabad	haridwar
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DBMS ASSIGNMENT 1

Name : D Yasho Vardhan Reddy
Roll no: 1602-18-737-120