**Database Design**

**USER\_PROFILE**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Datatype** | **Remark** |
| USER\_ID | Integer (20) | Primary key, auto\_increment |
| FIRST\_NAME | Varchar (20) |  |
| LAST\_NAME | Varchar (20) |  |
| ADDR\_STREETNAME | Varchar (20) |  |
| ADDR\_APTNO | Varchar (20) |  |
| ADDR\_CITY | Varchar (20) |  |
| ADDR\_STATE | Varchar (20) |  |
| ADDR\_ZIP | Varchar (20) |  |
| CONTACT\_NUMBER | Varchar (20) |  |
| EMAIL | Varchar (50) |  |
| Username | Varchar (50) |  |
| PASSWORD | Varchar (100) |  |
| Role\_id | Int(10) |  |
| Active | Int(5) |  |

**TRAVEL\_REQUEST**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Datatype** | **Remark** |
| TRAVEL\_REQUEST\_ID | Integer (20) | Primary Key, auto increment |
| USER\_ID | Integer (20) | Foreign Key |
| START\_POINT\_X\_COORDINATE | Varchar(20) | **Google Co-ordinates** |
| START\_POINT\_Y\_COORDINATE | Varchar(20) |  |
| END\_POINT\_X\_COORDINATE | Varchar(20) |  |
| END\_POINT\_Y\_COORDINATE | Varchar(20) |  |
| REQUEST\_TIMESTAMP | Datetime |  |
| TRAVEL\_DISTANCE\_IN\_MILES | Integer (10) |  |
| TRAVEL\_MODE\_SELECTED | tinyint (3) | References “TRAVEL\_MODE\_ID” from Table “TRAVEL\_MODE” |
| TRAVEL\_DRIVE\_SELECTED | tinyint (3) | References “DRIVE\_ID” from Table “TRAVEL DRIVE” |
| TRAVEL\_STATUS | Varchar (20) |  |
| TRAVEL\_DURATION | Integer(20) |  |
| user\_selected\_drive | Varchar(20) |  |

**FUTURE\_SCHEDULED\_TRAVEL**

|  |  |  |  |
| --- | --- | --- | --- |
| **Column Name** | **Datatype** | | **Remark** |
| RECORD\_ID | Int(5) Autoincrement | | Primary Key |
| USER\_ID | Integer (20) | Foreign Key | |
| START\_POINT\_X\_COORDINATE | Varchar(20) |  | |
| START\_POINT\_Y\_COORDINATE | Varchar(20) |  | |
| END\_POINT\_X\_COORDINATE | Varchar(20) |  | |
| END\_POINT\_X\_COORDINATE | Varchar(20) |  | |
| PRE\_NOTIFICATION\_TIME\_IN\_MINUTES | Integer (20) |  | |
| DRIVE\_ID | tinyint (3) | References “DRIVE\_ID” from Table “TRAVEL\_DRIVE” | |
| NOTIFICATION\_TIME | datetime |  | |
| destination\_reach\_time | datetime |  | |
| traveltime\_expected | Int (20) | Time In minutes | |
| request\_savetime | datetime |  | |
| Drive\_selected | Varchar(20) |  | |

**USER\_CLOUD\_NOTIFICATION\_ID**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Datatype** | **Remark** |
| USER\_ID | Integer (5) | Primary Key , Foreign Key |
| GCM\_REGISTERATION\_ID | Varchar (250) | Primary Key |
| ACTIVE | tinyint (3) |  |

**TRAVEL\_DRIVE**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Datatype** | **Remark** |
| DRIVE\_ID | tinyint (3) | Primary Key |
| DRIVE\_NAME | Varchar (20) | Unique |

**TRAVEL\_MODE**

|  |  |  |
| --- | --- | --- |
| **Column Name** | **Datatype** | **Remark** |
| TRAVEL\_MODE\_ID | tinyint (3) | Primary Key |
| TRAVEL\_MODE\_NAME | Varchar (20) | Unique |

**MY\_SQL**

Database Name – travelhelper

**Queries**

create database travelhelper;

use travelhelper;

1. create table **USER\_PROFILE** (user\_id int(20) AUTO INCREMENT, first\_name varchar(20), last\_name varchar(20),ADDR\_STREETNAME varchar(20),ADDR\_APTNO varchar(20), ADDR\_CITY varchar(20), ADDR\_STATE varchar(20), ADDR\_ZIP varchar(20), CONTACT\_NUMBER varchar(20), USERNAME varchar(50),PASSWORD varchar(100), role\_id int(10),active int(5), primary key (user\_id), foreign key(role\_id) references roles(role\_id), UNIQUE(USERNAME));
2. create table **travel\_request**(TRAVEL\_REQUEST\_ID int(20) auto increment, user\_id int(20), START\_POINT\_X\_COORDINATE varchar(20), START\_POINT\_Y\_COORDINATE varchar(20), END\_POINT\_X\_COORDINATE varchar(20), END\_POINT\_Y\_COORDINATE varchar(20), REQUEST\_TIMESTAMP datetime, TRAVEL\_DISTANCE\_IN\_MILES int(10), TRAVEL\_MODE\_SELECTED tinyint(3), TRAVEL\_DRIVE\_SELECTED tinyint(3), TRAVEL\_STATUS varchar(20), travel\_duration int(20), user\_selected\_drive varchar(20),primary key(TRAVEL\_REQUEST\_ID), foreign key (user\_id) references user\_profile(user\_id), foreign key (TRAVEL\_MODE\_SELECTED) references travel\_mode(travel\_mode\_id), foreign key (TRAVEL\_DRIVE\_SELECTED) references travel\_drive(drive\_id));
3. create table **future\_scheduled\_travel** (record\_id int(5) auto\_increment primary key, user\_id int(20), START\_POINT\_X\_COORDINATE Varchar(20),START\_POINT\_Y\_COORDINATE Varchar(20), END\_POINT\_X\_COORDINATE Varchar(20), END\_POINT\_Y\_COORDINATE Varchar(20), PRE\_NOTIFICATION\_TIME\_IN\_MINUTES int(20), notification\_time datetime, drive\_id tinyint(3), drive\_selected varchar(20), destination\_reach\_time datetime, traveltime\_expected int(20), request\_savetime datetime, foreign key (user\_id) references user\_profile(user\_id), foreign key (drive\_id) references travel\_drive(drive\_id));
4. create table **USER\_CLOUD\_NOTIFICATION\_ID** (user\_id int(5), GCM\_REGISTERATION\_ID varchar(250), active tinyint(3), primary key(user\_id, GCM\_REGISTERATION\_ID), foreign key (user\_id) references USER\_PROFILE(user\_id));
5. create table **travel\_mode** (travel\_mode\_id tinyint(3),travel\_mode\_name varchar(20) unique, primary key(travel\_mode\_id));

insert into travel\_mode values (1, ‘ECONOMICAL’);

insert into travel\_mode values (2, ‘FASTEST’);

1. create table **travel\_drive** (drive\_id tinyint(3),drive\_name varchar(20) unique, primary key(drive\_id));

insert into travel\_drive values(1,'DRIVING');

insert into travel\_drive values(2,'WALKING');

insert into travel\_drive values(3,'BICYCLING');

insert into travel\_drive values(4,'TRANSIT');

insert into travel\_drive values(5,'Lyft Plus');

insert into travel\_drive values(6,'Lyft');

insert into travel\_drive values(7,'POOL');

insert into travel\_drive values(8,'uberX');

insert into travel\_drive values(9,'uberXL');

insert into travel\_drive values(10,'uberESPANOL');

insert into travel\_drive values(11,'uberSELECT');

insert into travel\_drive values(12,'uberBLACK');

insert into travel\_drive values(13,'uberLUX');

insert into travel\_drive values(14,'uberSUV');

insert into travel\_drive values(15,'uberASSIST');

insert into travel\_drive values(16,'WAV');

1. create table **ROLES**(role\_id int(10) primary key, role\_name varchar(20));

insert into roles values (1, ‘ROLE\_USER’);