

## DDL:

```
create table profile (  
    uid                varchar(15)    not null,  
    firstName          varchar(64)    not null,  
    lastName           varchar(64)    not null,  
    profileImg         varchar(200),  
    birthdate          DATE           not null,  
    phone              varchar(15),  
    email              varchar(64),  
    gender             char,  
    records            dictionary,  
    address1           varchar(200),  
    address2           varchar(200),  
    city               varchar(64),  
    state              varchar(15),  
    zipcode            varchar(15),  
    organization        varchar(64),  
    club               varchar(64),  
    emergName          varchar(64),  
    emergPhone         varchar(15),  
    primary key (uid)  
);  
  
create table race (  
    raceId             int            not null,  
    raceName           varchar(32)    not null,  
    raceDescription    varchar(800),  
    imagePath         varchar(200),  
    eventday          DATE           not null,  
    regopendate        DATE           not null,  
    regclosedate       DATE,  
    distance           decimal(5,1)   not null,  
    capacity           int,  
    startdtm          TIME           not null,  
    startLatLng        varchar(32) ,  
    gpxFile            varchar(200),
```

```

        isOpen          boolean,

        uid              varchar(15)    not null,
        primary key (raceId),
        unique (name),
        foreign key (uid) references profile(uid)
    );

```

```

create table participate (
        raceId           varchar(15)    not null,
        uid              varchar(15)    not null,
        tshirtsize       varchar(15),
        bibnumber        varchar(15),
        chipnumber       varchar(15),
        finishedtime     TIME,
        finisheddistance varchar(15),
        primary key (raceId, uid),
        foreign key (uid) references member(uid),
        foreign key (raceId) references race(raceId)
    );

```

```

create table follow(
        followId        varchar(15)    not null,
        Uid             varchar(15)    not null,
        primary key (followId, uid),
        foreign key (uid) references member(uid),
        foreign key (followId) references member(uid)
    );

```

```

create table invite (
        raceId          varchar(15)    not null,
        uid             varchar(15)    not null,
        followId        varchar(15)    not null,
        isAccept        boolean,       not null,
        primary key (raceId,uid,followId),

```

```
foreign key (uid) references member(uid),
foreign key (followId) references member(uid),
foreign key (raceId) references race(raceId)
);
```

## Races:

1. **addUpdateRace**(raceId, raceName, raceDescription, imagePath, eventday, startdtm, capacity, distance, startLatLng, gpxFile, isOpen )
2. **deleteRace**(raceId)
3. **getRaces**(cb)  
e.g.

```
getRaces( function(childSnapshot) {
    // your control code
    //addItem( childSnapshot.key ,childSnapshot.val() );
});
```
4. **getMyRaces**(cb)
5. **getMyCreateRaces**(cb)
6. **getRaceRegisters**(raceId, cb)
7. **getRace**(raceID, cb)
8. **getRaceByName**( raceName, cb )  
e.g.

```
getRaceByName(raceName, childSnapshot => {
    // your control code
    //childSnapshot.key ,childSnapshot.val()
});
```

## Profile:

1. **addUpdateProfile**( profileImg,  
    firstName, lastName, email, gender, birthdate, phone, address1,  
    address2, city, state, zipcode )
2. **getMyProfile**(cb)  
    E.g.  
    getProfile(snap => console.log(snap.val())) );
3. **getProfile(profileId, cb)**
4. **getStatInfo**( peopleId, cb )  
    E.g.  
    getStatInfo( "-MMT6shfN4bTHRQY42p9",  
    function( count, distance, time, records) {  
        console.log( count );  
        if(records["Marathon"] != null)  
            //Half Marathon, 5K, 100Miles, 50Miles  
        {  
            console.log(records["Marathon"] );  
        }  
    } );
5. **getMyStat**(cb)  
    E.g.  
    getProfile(snap => console.log(snap.val())) );

## Participate:

1. **addRegister**(raceId)
2. **cancelRegister**(raceId)

3. **updateParticipateInfo**(raceId, participateId, finishedtime, finisheddistance)
4. **getRegisterRaces**(peopleId, cb)  
E.g.  

```
getRegisterRaces("dKNyWQ5BfDUhw91Ru0tDJ36ir4I2", snap => console.log(snap.val()) );
```
5. **getRaceResults**(raceId, cb)  
E.g.  

```
getRaceResults("-MJxxESa1SpS-6mHlv6N", (resultsnap, profilesnap ) => {  
    console.log(profilesnap);  
    console.log(profilesnap.val().firstName + " " +  
    profilesnap.val().lastName);  
    console.log(resultsnap.val().finishedtime);  
  
    });
```
6. **getPeopleResults**(peopleId, cb)  
E.g.  

```
getPeopleResults("dKNyWQ5BfDUhw91Ru0tDJ36ir4I2", (resultsnap, racesnap ) => {  
    console.log(racesnap.val().raceName );  
    console.log(resultsnap.val().finishedtime);  
  
    });
```
7. **getMyRacesByEventday**(cb)
8. **getRegisterRacesByEventDay**(peopleId, cb)
9. **isMyRegisterRace**( raceId,cb )

## Follow:

1. **addFollow**( peopleId )

2. **Unfollow**(peopleId)
3. **getFollows**(cb)  
E.g.  
getFollows(snap => console.log(snap.val()));
4. **getUninvitedFollows**(raceId, cb)  
E.g.  
getFollows(snap => console.log(snap.val()));

## Invites:

1. **inviteRace**(raceId, peopleId)
2. **removeInvite**(peopleId)
3. **isInvited**( raceId, followId, cb)

## Search:

1. **searchRaceByName**( raceName, cb)  
E.g.  
searchRaceByName("Ke",snap => console.log(snap.val().raceName));
2. **searchRaceByFilter**( raceDistanceMin, raceDistanceMax, raceMonthMin, raceMonthMax,cb )  
E.g.  
searchRaceByFilter( 50, 100, 1,12,snap => console.log(snap.val()));
3. **searchPeopleByName**( peopleName, cb )  
E.g.  
searchPeopleByName("James",snap => console.log(snap.val()));
4. **searchPeopleByFilter**( peopleGender, peopleBirthMin, peopleBirthMax, cb )

E.g.

```
searchPeopleByFilter("F", "1988-1-1", "2004-1-1",snap =>
console.log(snap.val()));
```

## Files Store:

1. **uploadProfilePicture**( raceName, cb)

E.g.

```
var fileUpload = document.getElementById("cameraInput");
fileUpload.addEventListener('change', function(evt) {
  var firstFile = evt.target.files[0]; // upload the first file only
  console.log(firstFile);
  uploadProfilePicture("test", firstFile, url =>{
    console.log(url);
    var img = document.getElementById("raceimg");
    img.setAttribute( "src", url);
    //also update to firebase
  });
});
```

2. **uploadRaceLogo**( raceDistanceMin, raceDistanceMax, raceMonthMin, raceMonthMax,cb )

3. **uploadRaceKML**( peopleName, cb )

4. **uploadRacePictures**( peopleName, cb )

