FINAL PROJECT

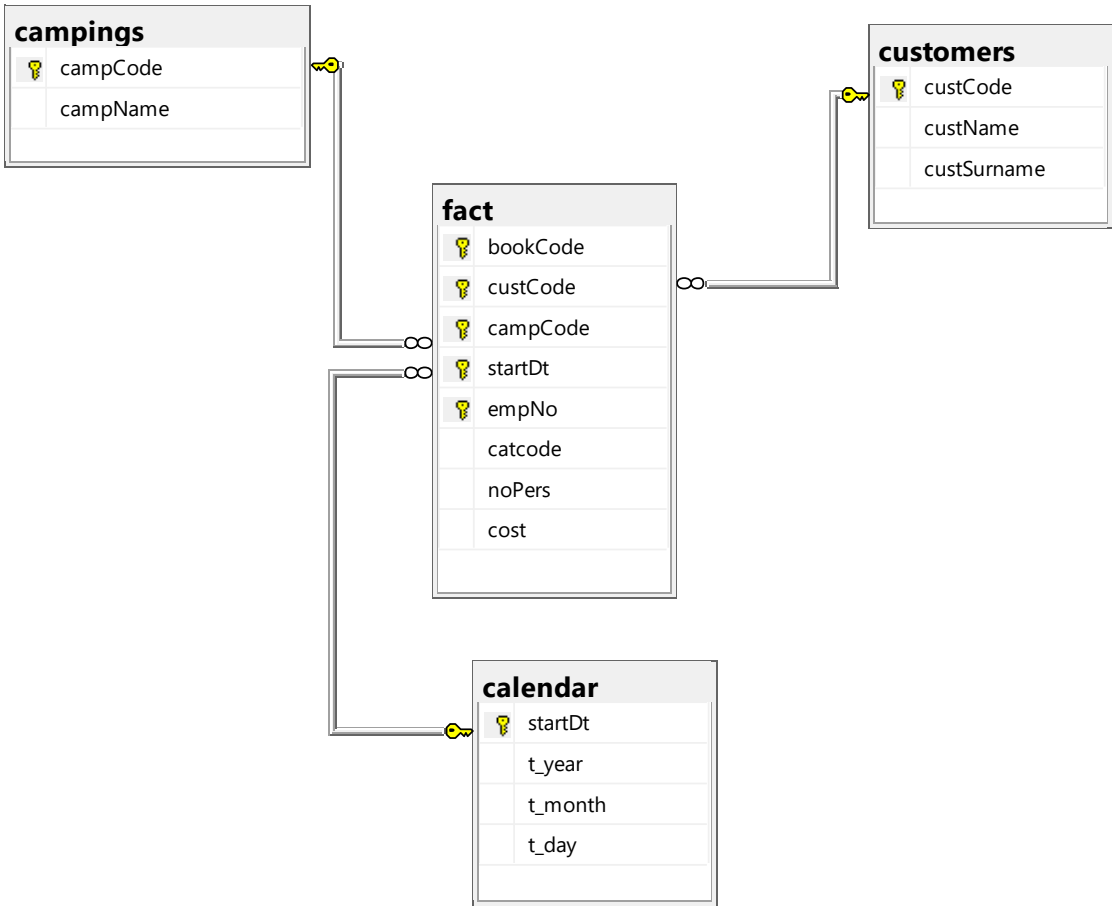
Ενδεικτικές Λύσεις Φάσης Γ

ΦΑΣΗ Γ – Αποθήκη Δεδομένων

```
Create table customers
  (custCode int primary key,
   custName varchar(30),
   custSurname varchar(30)
   );
insert into customers select  custCode,custName,custSurname from
CAMPDB.dbo.customer


create table campings
( campCode char(3) primary key,
  campName varchar(30)
);
insert into campings select  campCode, campName from CAMPDB.dbo.camping


 create table calendar
 (
   startDt date primary key,
   t_year int,
   t_month int,
   t_day int
)

insert into calendar
    select distinct startDt, datepart(year, startDt), datepart(month, startDt),
                    datepart(day, startDt)
                from CAMPDB.dbo.Rental

create table fact
(bookCode int,
 custCode int foreign key references customers(custCode),
 campCode char(3) foreign key references campings (campCode),
 startDt date foreign key references calendar(startDt),
 empNo int,
 catcode char(1),
 noPers int,
 cost numeric (6,2)
 primary key (bookCode, custCode, campCode, startDt, empNo)
);

insert into fact
select CAMPDB.dbo.booking.bookcode, CAMPDB.dbo.booking.custCode,
       CAMPDB.dbo.rental.campCode, startDt, CAMPDB.dbo.rental.empNo,
       CAMPDB.dbo.emplacement.catcode, noPers,
       nopers*unitcost*(DATEDIFF(day,startDt,endDt)+1)
 from CAMPDB.dbo.rental, CAMPDB.dbo.booking,
      CAMPDB.dbo.Emplacement, CAMPDB.dbo.Category
 where CAMPDB.dbo.rental.bookCode=CAMPDB.dbo.booking.bookCode and
       CAMPDB.dbo.rental.campCode=CAMPDB.dbo.emplacement.campCode and
       CAMPDB.dbo.rental.empNo=CAMPDB.dbo.emplacement.empno and
       CAMPDB.dbo.emplacement.catcode=CAMPDB.dbo.Category.catcode
```

```sql
--Q1

select top 100 customers.custCode, custName, custSurname, sum(cost)
    from customers, fact
 where customers.custCode=fact.CustCode
  group by customers.custCode, custName, custSurname
  order by sum(cost) desc

--Q2
select campname, catCode, sum(cost)
   from campings, calendar, fact
  where campings.campCode=fact.campCode and
        calendar.startDt=fact.startDt and t_year = 2000
        group by campname,catCode
        order by campname,catCode

 --Q3
 select campname, t_month, sum(cost)
    from campings, calendar, fact
  where campings.campcode=fact.campcode and
        calendar.startDt=fact.startDt and
              t_year = 2018
              group by t_month,campname


--Q4
select t_year, campName, catCode, sum(noPers)
   from calendar, campings,  fact
  where calendar.startDt=fact.startDt and
        campings.campCode = fact.campcode
  group by ROLLUP (t_year, campName, catCode)

--Q5

select t_year, campName, catCode, sum(cost)
   from calendar, campings,  fact
  where calendar.startDt=fact.startDt and
        campings.campCode = fact.campcode
  group by CUBE (t_year, campName, catCode)
```

STAR SCHEMA


campings
campCode
campName
customers
custCode
custName
custSurname
fact
bookCode
custCode
campCode
startDt
empNo
catcode
noPers
cost
calendar
startDt
t_year
t_month
t_day