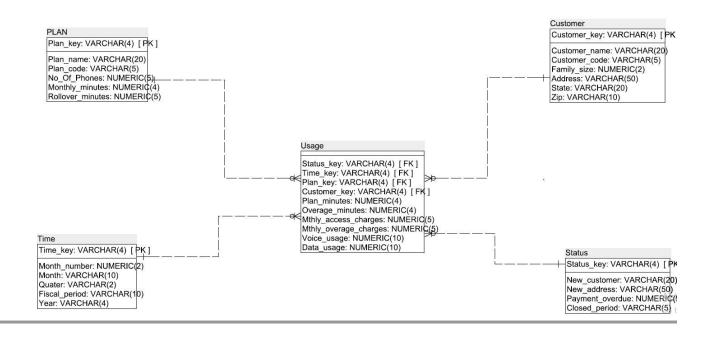
Star Schema:-



```
CREATE TABLE Time (
                Time key VARCHAR2(4) NOT NULL,
                Month number NUMBER(2) NOT NULL,
                Month VARCHAR2(10) NOT NULL,
                Quater VARCHAR2(2) NOT NULL,
                Fiscal_period VARCHAR2(10) NOT NULL,
                Year VARCHAR2(4) NOT NULL,
                CONSTRAINT TIME PK PRIMARY KEY (Time key)
);
CREATE TABLE Status (
                Status_key VARCHAR2(4) NOT NULL,
                New_customer VARCHAR2(20) NOT NULL,
                New_address VARCHAR2(50) NOT NULL,
                Payment overdue NUMBER(5) NOT NULL,
                Closed period VARCHAR2(5) NOT NULL,
                CONSTRAINT STATUS PK PRIMARY KEY (Status key)
);
CREATE TABLE Customer (
                Customer_key VARCHAR2(4) NOT NULL,
                Customer name VARCHAR2(20) NOT NULL,
                Customer_code VARCHAR2(5) NOT NULL,
                Family_size NUMBER(2) NOT NULL,
                Address VARCHAR2(50) NOT NULL,
                State VARCHAR2(20) NOT NULL,
                Zip VARCHAR2(10) NOT NULL,
                CONSTRAINT CUSTOMER_PK PRIMARY KEY (Customer_key)
);
```

```
CREATE TABLE PLAN (
                Plan_key VARCHAR2(4) NOT NULL,
                Plan_name VARCHAR2(20) NOT NULL,
                Plan code VARCHAR2(5) NOT NULL,
                No Of Phones NUMBER(5) NOT NULL,
                Monthly_minutes NUMBER(4) NOT NULL,
                Rollover_minutes NUMBER(5) NOT NULL,
                CONSTRAINT PLAN_PK PRIMARY KEY (Plan_key)
);
CREATE TABLE Usage (
                Usage_key VARCHAR2(4) NOT NULL,
                Status_key VARCHAR2(4) NOT NULL,
                Time key VARCHAR2(4) NOT NULL,
                Plan key VARCHAR2(4) NOT NULL,
                Customer key VARCHAR2(4) NOT NULL,
                Plan_minutes NUMBER(4) NOT NULL,
                Overage_minutes NUMBER(4) NOT NULL,
                Mthly access charges NUMBER(5) NOT NULL,
                Mthly overage charges NUMBER(5) NOT NULL,
                Voice usage NUMBER(10) NOT NULL,
                Data_usage NUMBER(10) NOT NULL,
                CONSTRAINT USAGE_PK PRIMARY KEY (Usage_key)
);
ALTER TABLE Usage ADD CONSTRAINT TIME_USAGE_FK
FOREIGN KEY (Time_key)
REFERENCES Time (Time key)
NOT DEFERRABLE;
ALTER TABLE Usage ADD CONSTRAINT STATUS_USAGE_FK
FOREIGN KEY (Status key)
REFERENCES Status (Status key)
NOT DEFERRABLE;
ALTER TABLE Usage ADD CONSTRAINT CUSTOMER_USAGE_FK
FOREIGN KEY (Customer key)
REFERENCES Customer (Customer_key)
NOT DEFERRABLE;
ALTER TABLE Usage ADD CONSTRAINT PLAN USAGE FK
FOREIGN KEY (Plan_key)
REFERENCES PLAN (Plan_key)
NOT DEFERRABLE;
insert into plan values('P100','Diwali_dhamaka','dd501',500,1000,9000);
insert into plan values('P101','Holi Special','hs101',200,6000,8000);
insert into time values('T100',11,'November',4,'5','1998');
insert into time values('T101',5,'May',2,'6','2011');
insert into customer values ('C100', 'Gaurav', 'gg100', 15, 'KT Nagar
Nagpur','Maharashtra','Nagpur');
```

```
insert into customer values ('C101', 'Harsh', 'hg100', 20, 'KT Nagar
Nagpur', 'Maharashtra', 'Nagpur');

insert into status values('S100', Yash, Ram Nagar Nagpur', 5000, 10);
insert into status values('S101', Pravin, 'Manish Nagar Nagpur', 10000, 1);

insert into usage
values('U100', 'S100', 'T100', 'P100', 'C100', 2000, 5000, 1000, 3000, 600000, 800000);
insert into usage
values('U101', 'S101', 'T101', 'P101', 'C101', 8000, 6000, 5000, 8000, 50000, 900000);

select u.usage_key,t.month_number,p.plan_name,c.customer_name,s.new_customer
from usage u,time t,plan p,status s,customer c
where u.status_key=s.status_key and
u.plan_key=p.plan_key and
u.time_key=t.time_key and
u.customer_key=c.customer_key;
```

Snowflake Schema:-

