

```

create database dreamHouse1

create table branch(
branchno varchar(20),
street varchar(20),
city varchar(20),
postcode varchar(20)
)

select * from branch

insert into branch values('b005','22 deer rd','london','sw14eh'),
('b007','16 argyll st','aberdeen','ab2 3su'),
('b003','163 main st','glasgow','g11 9qx'),
('b004','32 manse rd','bristol','bs99 1nz'),
('b002','56 clover dr','london','nw10 6eu')

create table staff(
staffno varchar(20),
fname varchar(20),
lname varchar(20),
position varchar(20),
sex char,
dob varchar(20),
salary int,
branchno varchar(20)
)

insert into staff values('sl21','john','white','manager','m','1-oct-45','30000','b005'),
('sg37','ann','beech','assistant','f','10-nov-60','12000','b003'),
('sg14','david','ford','supervisor','m','24-mar-58','18000','b003'),
('sa9','mary','howe','asistant','f','19-feb-70','9000','b007'),
('sg5','susan','brand','manager','f','3-jun-40','24000','b003'),
('sl41','julie','lee','assistant','f','13-jun-65','9000','b005')

```

```
select * from staff
```

```
create table propertyForRent(
```

```
propertyno varchar(20),
```

```
street varchar(20),
```

```
city varchar(20),
```

```
postcode varchar(20),
```

```
type varchar(20),
```

```
room varchar(20),
```

```
rent int,
```

```
ownerno int,
```

```
staffno varchar(20),
```

```
branchno varchar(20)
```

```
)
```

```
alter table propertyForRent alter column ownerno varchar(20);
```

```
select * from propertyForRent
```

```
insert into propertyForRent values('pa14','16 holhead','aberdeen','ab7  
5su','house','6','650','c046','sa9','b007'),
```

```
('pl94','6 argyll st','london','nw2','flat','4','400','c087','sl41','b005'),
```

```
('pg4','6 lawrence st','glasgow','g11 9qx','flat','3','350','c040','','b003'),
```

```
('pg36','2 manor rd','glasgow','g32 4qx','flat','3','375','c093','sg37','b003'),
```

```
('pg21','18 dale rd','glasgow','g12','house','5','600','c087','sg37','b003'),
```

```
('pg16','5 novar dr','glasgow','g12 9ax','flat','4','450','c093','sg14','b003')
```

```
create table client(
```

```
clientno varchar(20),
```

```
fname varchar(20),
```

```
lname varchar(20),
```

```
telno int,
```

```

preftype varchar(20),
maxrent int,
)
alter table client alter column telno varchar(20);
select * from client
insert into client values('cr76','john','kay','0207-774-5632','flat','425'),
('cr56','aline','stewart','0141-848-1825','flat','350'),
('cr74','mike','ritchie','01475-392178','house','750'),
('cr62','mary','tregear','01224-196720','flat','600')
create table privateowner(
ownerno varchar(20),
fname varchar(20),
lname varchar(20),
address varchar(20),
telno varchar(20)
)
alter table privateowner alter column address varchar(50);
select * from private owner
insert into privateowner values('c046','joe','keogh','2 fergus dr,aberdeen ab2 7sx','01224-861212'),
('c087','carol','farrel','6 achray st,glagow g32 9dx','0141-357-7419'),
('c040','tina','murphy','63 well st, glasgow g42','0141-943-1728'),
('c093','tony','shaw','12 park pl,glasgow g40qr','0141-225-7025')

create table viewing(
clientno varchar(20),
propertyno varchar(20),
viewdate varchar(20),
comment varchar(20)
)

```

```
select * from viewing  
  
insert into viewing values('cr56','pa14','24-may-04','to small'),  
( 'cr76','pg4','20-apr-04','too remote'),  
( 'cr56','pg4','26-may-04',''),  
( 'cr62','pa14','14-may-04','no dining room'),  
( 'cr56','pg36','28-apr-04','')
```

```
create table registration(  
clientno varchar(20),  
branchno varchar(20),  
staffno varchar(20),  
datejoined varchar(20)  
)
```

```
select * from registration  
  
insert into registration values('cr76','b005','sl41','2-jan-04'),  
( 'cr56','b003','sg37','11-apr-03'),  
( 'cr74','b003','sg37','16-nov-02'),  
( 'cr62','b007','sa9','7-mar-03')
```

```
--distinct
```

```
select distinct salary from staff order by salary
```

```
select distinct branchno from propertyForRent order by branchno
```

```
--select clouse
```

```
select fname,lname from client
```

```
-- AS statment
```

```
select * from client
```

```
select clientno as ClientNo,fname as Fname, telno as TellNo, preftype as PreFtype, maxrent as MaxRent  
from client;
```

```
-- where clouse and clouse or clouse
```

```
select * from staff
```

where sex='f' and position='manager' and salary >=12000 or sex='m'

-- in operator

select * from propertyForRent

where branchno in ('b007','b005');

-- not in operator

select * from propertyForRent

where branchno not in ('b007','b005');

-- between operator

select * from staff

where dob between '1-oct-45' and '1-oct-65';

-- select data with like operator

where fname like 'a%';

select * from client

where fname like 'm%y';

select * from client

where fname like '%hn%';

--select data with order by

select * from client

order by fname;

select * from client

where preftype ='flat'

order by fname,lname;

-- select with descending

select * from client

order by fname desc;

-- select data with distinct

select distinct preftype from client

```
select * from branch
```

```
select * from client
```

```
select * from privateowner
```

```
select * from propertyForRent
```

```
select * from registration
```

```
select * from staff
```

```
select * from viewing
```