Student Code: **30061694**

Student Name: **MUHAMMED ADEBISI**

**TABLES CODES**

CREATE TABLE Potential\_Buyer

(BuyerNumber char(8) not null,

Buyer\_Name char(20) not null,

Buyer\_Address char(50) not null,

Min\_Bedroom char,

Min\_Bathroom char,

Min\_reception char,

Family\_Type varchar(12) not null,

GarageRequired char(10),

Max\_price number,

constraint Potential\_Buyer\_BuyerNumber\_pk primary key(BuyerNumber));

CREATE TABLE Seller

(SellerNo char(8) not null,

Property\_Status char(20),

constraint Seller\_SellerNo\_pk primary key(SellerNo));

CREATE TABLE Sale\_Property

(PropertyCode char(10) not null,

SellerNo char(8) not null,

Area char(20),

Address char(50) not null,

Bedroom\_Number char,

Bathroom\_Number char,

Reception\_Number char,

Garage\_status varchar(10),

Property\_Type varchar(25) not null,

Price number,

Property\_ownership char(20),

Market\_Date date,

Property\_Current\_State char(15),

constraint Sale\_Property\_PropertyCode\_pk primary key(PropertyCode),

constraint Sale\_Property\_SellerNo\_fk Foreign key(SellerNo) references Seller(SellerNo));

CREATE TABLE Staff\_Member

(StaffNo varchar(8) not null,

Staff\_name char(20) not null,

Staff\_address varchar(80),

constraint Staff\_Member\_StaffNo\_pk primary key(StaffNo));

CREATE TABLE Viewing\_Appointment

(AppointmentNo char(10) not null,

BuyerNumber char(8) not null,

PropertyCode char(10) not null,

StaffNo varchar(8) not null,

AppointmentDate date,

Appointmenttime char(7) not null,

constraint Viewing\_Appointment\_AppointmentNo\_pk primary key(StaffNo,BuyerNumber,PropertyCode,AppointmentDate,Appointmenttime),

constraint Viewing\_Appointment\_BuyerNumber\_fk foreign key(BuyerNumber) references Potential\_Buyer(BuyerNumber),

constraint Viewing\_Appointment\_PropertyCode\_fk foreign key(PropertyCode) references Sale\_Property(PropertyCode),

constraint viewing\_Appointment\_StaffNo\_fk foreign key(StaffNo) references Staff\_Member(StaffNo));

**TABLES POPULATION CODES**

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11065', 'Adekunle Ayomide', '10 Stellamaris Bristol', '2', '1', '1', 'Children', 'yes', 700);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11075', 'Adebisi Muhammed', 'T43 Glamorgan Treforest', '4', '2', '2', 'Children', 'yes', 950);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11088', 'Folami Phola', '30 Wood Road Treforest', '3', '2', '1', 'no Children', 'yes', 800);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11092', 'Emmanuel Fintch', '40 Nepa Swansea', '5', '3', '2', 'Children', 'yes', 1050);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11096', 'Deji USman', 'N13 Glamorgan Treforest', '3', '1', '1', 'no Children', 'yes', 750);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11083', 'Sorewei Evelyn', 'P12 Glamorgan Pontypridd', '2', '1', '1', 'no Children', 'no', 600);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11066', 'Dantata Haliyah', '15 Justin Avonmouth', '2', '1', '1', 'Children', 'yes', 500);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11072', 'Christian Madu', 'T03 Savanna Bridgend', '4', '1', '2', 'Children', 'yes', 1000);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11089', 'Olaniyan Sodiq', '33 Salt Road Aberdare', '3', '2', '1', 'no Children', 'yes', 700);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11091', 'Aliko musa', '19 Brick Blackwood', '4', '3', '2', 'Children', 'yes', 950);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11095', 'Amoo Temitayo', 'N18 Glamorgan Carthys', '3', '1', '1', 'no Children', 'yes', 750);

INSERT INTO

Potential\_Buyer(BuyerNumber,Buyer\_Name,Buyer\_Address,Min\_Bedroom,Min\_Bathroom,Min\_reception,Family\_Type,GarageRequired,Max\_price)

VALUES('A11081', 'Madu Dantata', 'S02 Glamorgan Cardiff', '2', '1', '1', 'no Children', 'no', 600);

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES ('SP1004','Null');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES('SP1006', 'Null');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES('SP1007', 'Null');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES('SP1008', 'sold');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES('SP1010', 'Null');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES('SP1012', 'Sold');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES ('SP1009','Null');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES('SP1014', 'Null');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES('SP1026', 'Null');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES('SP1032', 'sold');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES('SP1047', 'Null');

INSERT INTO

Seller(SellerNo,Property\_Status)

VALUES('SP1038', 'Sold');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0012','Bill Clinton','T3 Simpson aberdare');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0010','Sean Jane','N0 10 Cornerstone Swansea');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0008','Nanu Osberg','3 Onward Carthys');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0007','Free Bossman','16 Treewood Avonmouth');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0014','Lisa Laura','4 Moonnight Pontypridd');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0016','Ben Bruce','15 Wood Road Cardiff');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0013','Freeman Wood','M2 Gaps Pontypridd');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0019','Qing Ma','N0 12 Bath Swansea');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0028','Jeremih Fust','4 Ward Cardiff');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0057','David Mane','18 Becks Blackwood');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0044','Brooke Sandra','2 Lidnight Porth');

INSERT INTO

Staff\_Member(StaffNo,Staff\_name,Staff\_address)

VALUES('M0036','Ming Lee','11 Member Cardiff');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10063','SP1004','Pontypridd','M10 Wood Road','4','2','1','Yes','Detached',950,'freehold','03-JUN-2022','Unsold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10065','SP1010','Pontypridd','Y5 Bucketty','3','2','1','Yes','Terrace',800,'leasehold','15-MAY-2022','Unsold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10058','SP1006','Swansea','No15 Forest Groove','5','2','2','Yes','Semi-Detached',1100,'freehold','20-APR-2022','Unsold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10048','SP1012','Cardiff','T16 Morgan Base','3','1','1','Yes','Link',750,'freehold','15-JAN-2022','Sold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10043','SP1007','Newport','Memorial Road','2','1','1','No','Terrace',650,'freehold','03-MAR-2022','Unsold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10052','SP1008','Bridgend','Old Legacy Road','4','2','1','Yes','Semi-Detached',950,'leasehold','10-FEB-2022','Sold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10081','SP1009','Pontypridd','M10 Farm Road','4','2','1','Yes','Detached',930,'freehold','16-JUN-2022','Unsold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10028','SP1014','Pontypridd','T9 SPacetown','3','2','1','Yes','Terrace',850,'leasehold','18-MAY-2022','Unsold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10015','SP1026','Swansea','No25 Church Street','6','3','2','Yes','Semi-Detached',1200,'freehold','19-APR-2022','Unsold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10029','SP1032','Cardiff','W12 Baseline','4','2','1','Yes','Link',850,'freehold','13-JAN-2022','Sold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10093','SP1047','Newport','Phil Simp Road','2','1','1','No','Terrace',660,'freehold','07-MAR-2022','Unsold');

INSERT INTO

Sale\_Property(PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State)

VALUES('PC10075','SP1038','Bridgend','New Waterland Road','4','2','1','Yes','Semi-Detached',900,'leasehold','13-FEB-2022','Sold');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1006','A11065','PC10063','M0012','06-JAN-2023','12:00');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1008','A11075','PC10065','M0010','28-NOV-2022','14:00');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1010','A11088','PC10058','M0008','04-DEC-2022','15:00');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1012','A11092','PC10048','M0007','15-NOV-2022','12:00');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1023','A11096','PC10043','M0014','20-DEC-2022','10:00');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1014','A11083','PC10052','M0016','12-NOV-2022','09:30');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1009','A11066','PC10081','M0013','02-DEc-2022','13:00');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1011','A11072','PC10028','M0019','04-JAN-2023','12:00');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1013','A11089','PC10015','M0028','07-DEC-2022','10:00');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1041','A11091','PC10029','M0057','13-NOV-2022','12:00');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1032','A11095','PC10093','M0044','28-NOV-2022','15:00');

INSERT INTO

Viewing\_Appointment(AppointmentNo,BuyerNumber,PropertyCode,StaffNo,AppointmentDate,Appointmenttime)

VALUES('NP1033','A11081','PC10075','M0036','08-NOV-2022','10:30');

SELECT \*

FROM Potential\_Buyer;

SELECT \*

FROM Seller;

SELECT \*

FROM Staff\_Member;

SELECT \*

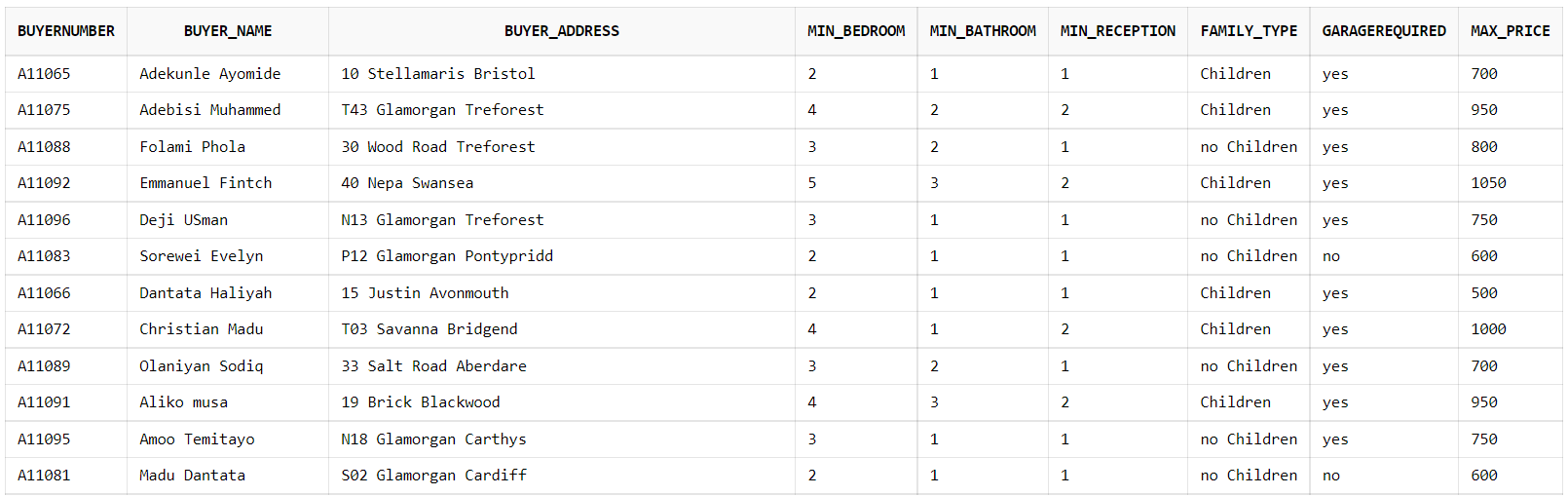
FROM Sale\_Property;

SELECT \*

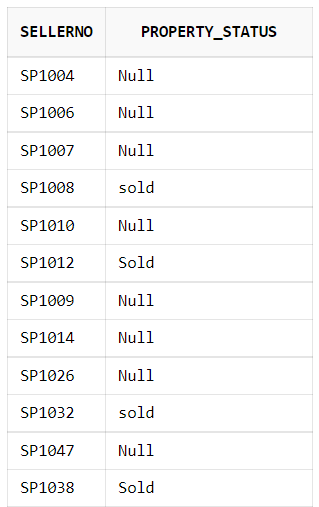
FROM Viewing\_Appointment;

**POPULATION TABLES**

* Potential\_Buyer

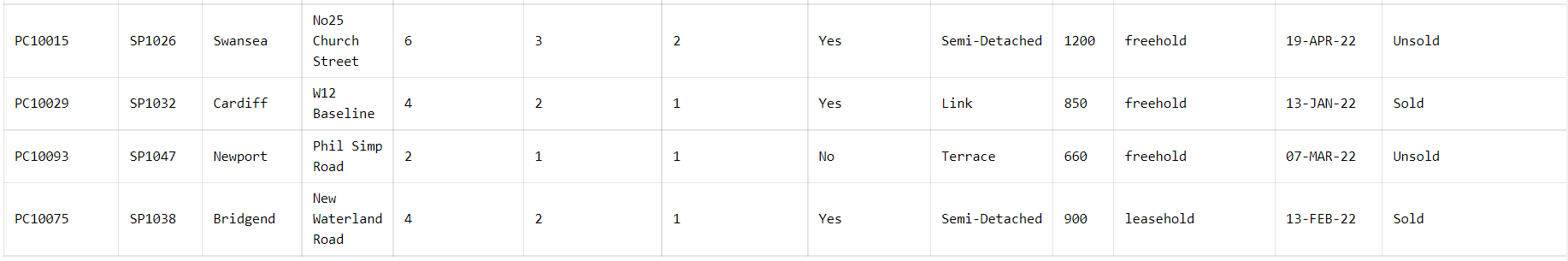


* Seller

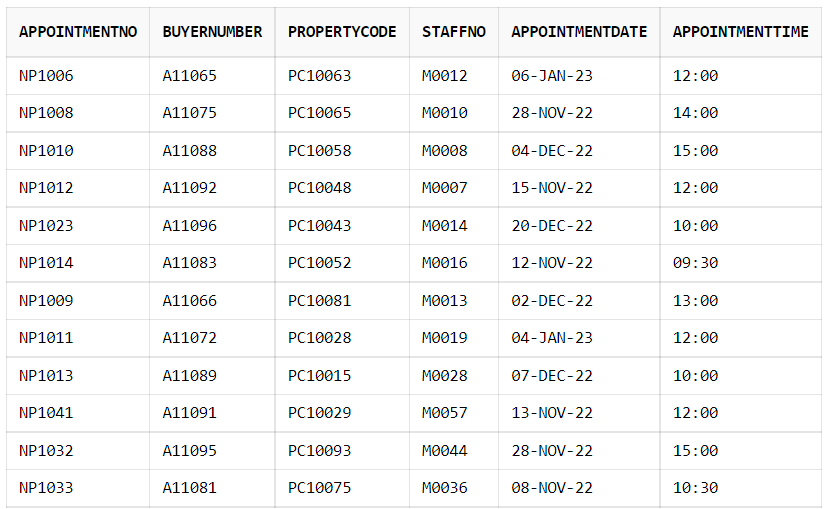


* Sales\_Property

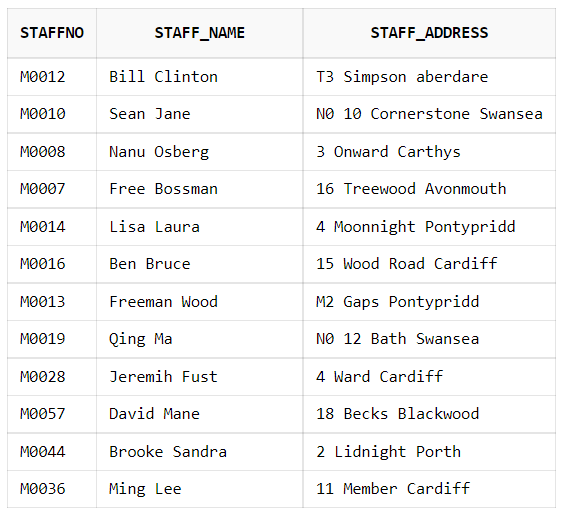




* Viewing\_Appointment



* Staff\_Member



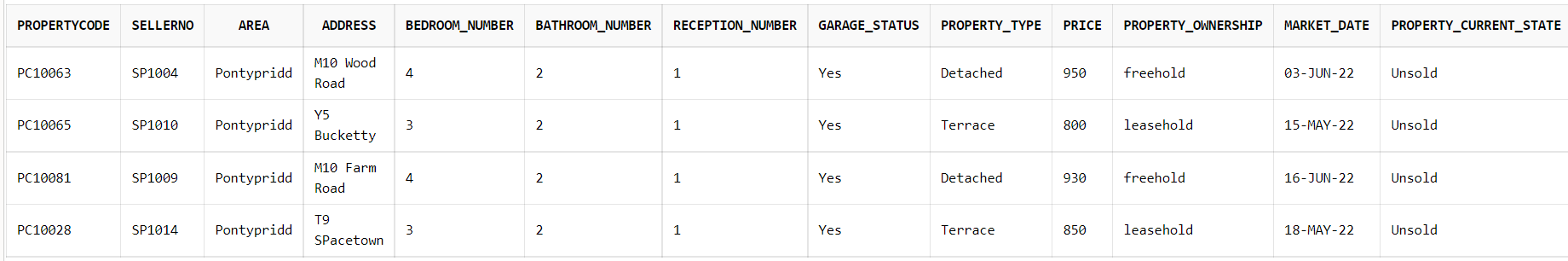
**ANSWERS TO THE QUESTIONS**

**QUESTION ONE (1):**

SELECT PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State

FROM Sale\_Property

WHERE Area IN ('Pontypridd');



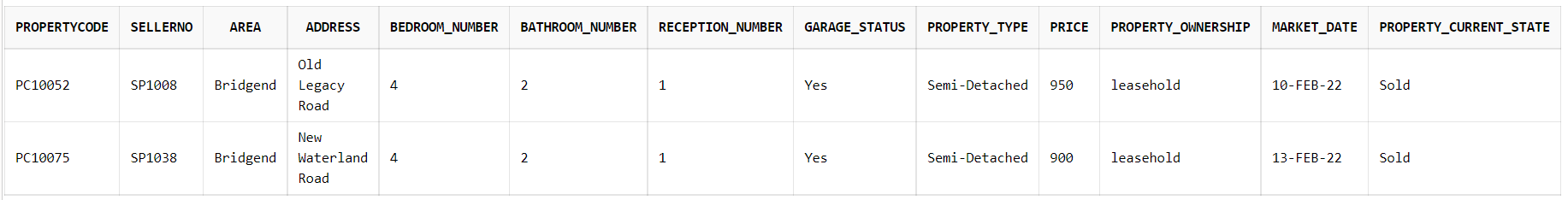
**QUESTION TWO (2):**

SELECT PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State

FROM Sale\_Property

WHERE Property\_Type IN ('Semi-Detached')

AND Property\_Current\_State IN ('Sold');



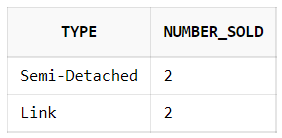
**QUESTION THREE (3):**

SELECT Property\_Type AS Type,COUNT(Property\_Current\_State) AS Number\_Sold

FROM Sale\_Property

WHERE Property\_Current\_State IN ('Sold')

GROUP BY Property\_Type,Property\_Current\_State;



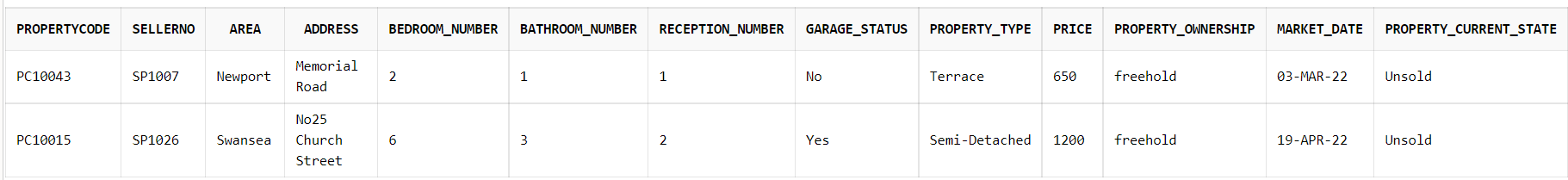
**QUESTION FOUR (4):**

SELECT \*

FROM Sale\_Property

WHERE Price IN (SELECT MAX(Price) FROM Sale\_Property)

OR Price IN(SELECT MIN(Price) FROM Sale\_Property);



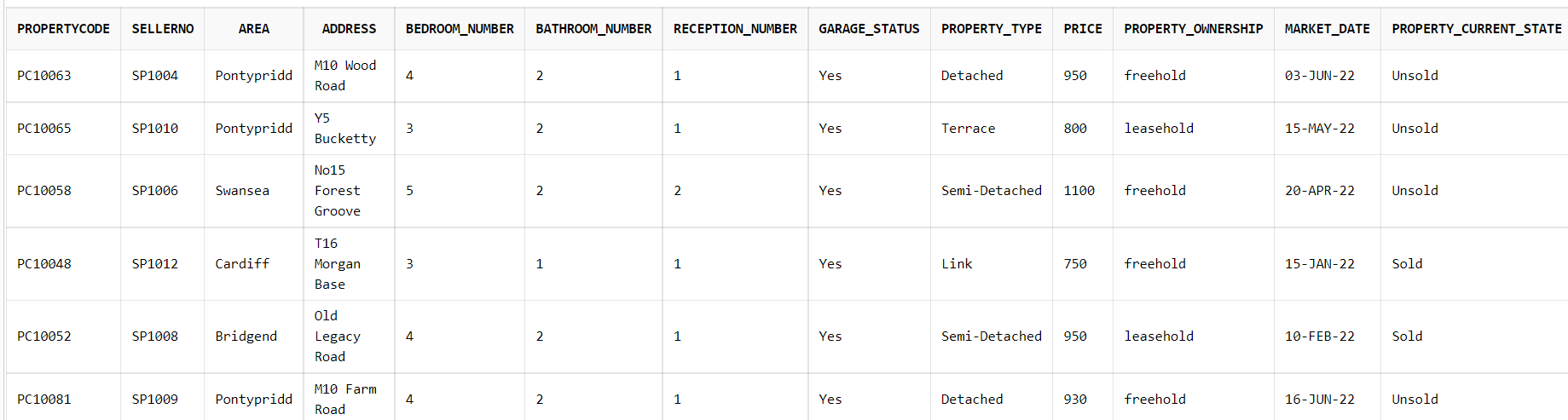
**QUESTION FIVE (5):**

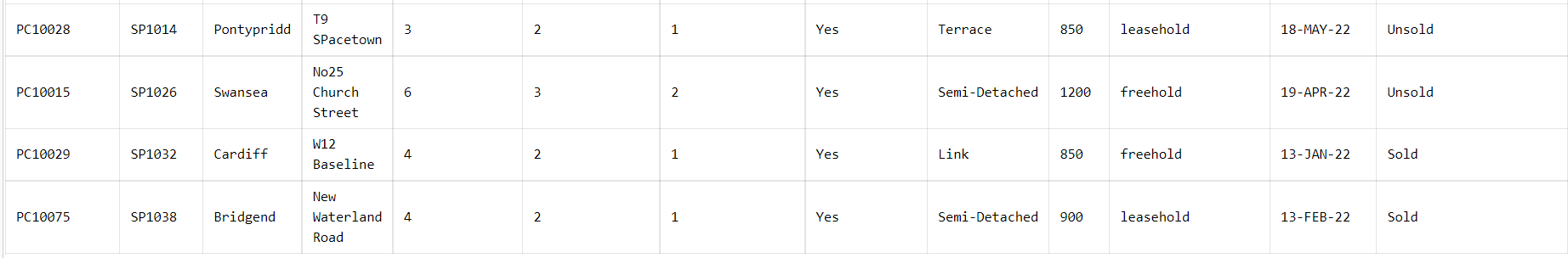
SELECT PropertyCode,SellerNo,Area,Address,Bedroom\_Number,Bathroom\_Number,Reception\_Number,Garage\_Status,Property\_Type,Price,Property\_Ownership,Market\_Date,Property\_Current\_State

FROM Sale\_Property

WHERE Bedroom\_Number >=3 AND Bathroom\_Number >=1

AND Garage\_Status IN ('Yes');



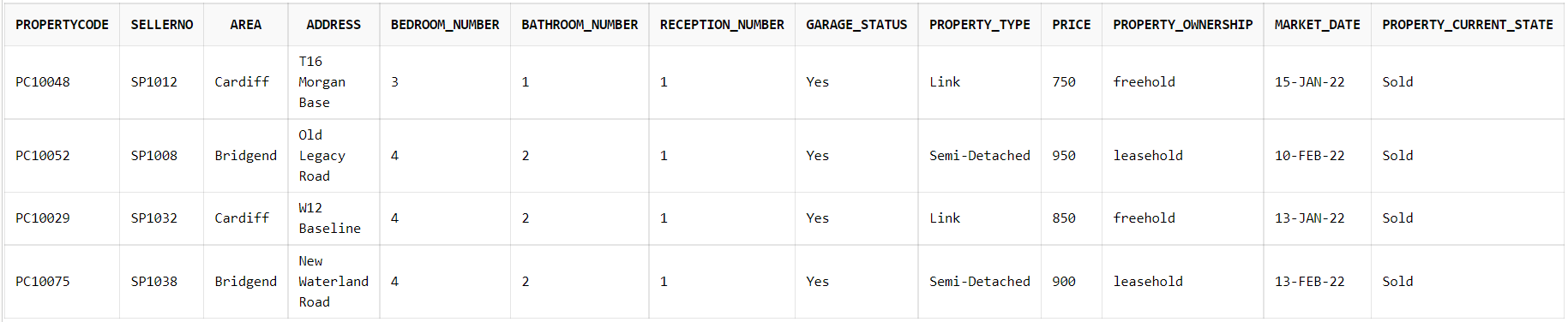


**QUESTION SIX (6):**

SELECT \*

FROM Sale\_Property

WHERE Market\_Date BETWEEN '01-JAN-2022' AND '28-FEB-2022';

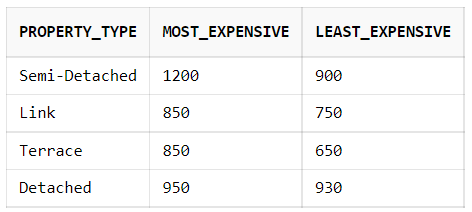


**QUESTION SEVEN (7):**

SELECT Property\_Type,MAX(Price) AS Most\_Expensive, MIN(Price) AS Least\_Expensive

FROM Sale\_Property

GROUP BY Property\_Type;

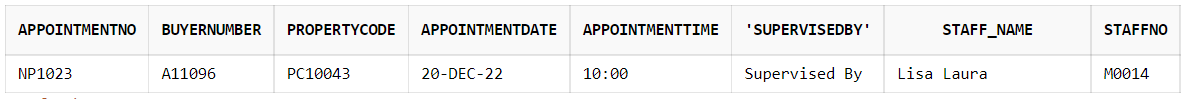


**QUESTION EIGHT (8):**

SELECT V. AppointmentNo,V. BuyerNumber,V. PropertyCode,V. AppointmentDate,V. Appointmenttime, 'Supervised By',S. Staff\_name, V. StaffNo

FROM Viewing\_Appointment V, Staff\_Member S

WHERE V. StaffNo = S. StaffNo AND S. Staff\_name = 'Lisa Laura';



**QUESTION NINE (9):**

The first thing we need to do, is to add seller name to Seller and put some values(populate), as follows

**Code and population**:

ALTER TABLE Seller

ADD SellerName VARCHAR(20);

update Seller

set SellerName='A. Fella'

where SellerNo='SP1006';

update Seller

set SellerName= 'C. Bams'

Where SellerNo='SP1004';

Update Seller

set SellerName='P. Morgan'

Where SellerNo='SP1007';

update Seller

set SellerName='F. Allen'

Where SellerNo='SP1008';

update Seller

set SellerName='M. Felix'

Where SellerNo='SP1010';

update Seller

set SellerName='Sam Chang'

Where SellerNo='SP1012';

update Seller

set SellerName='D. Perez'

Where SellerNo='SP1009';

update Seller

set SellerName= 'J. Evans'

Where SellerNo='SP1014';

update Seller

set SellerName= 'M. Bench'

Where SellerNo='SP1026';

update Seller

set SellerName='F. George'

Where SellerNo='SP1032';

update Seller

set SellerName= 'M. Brain'

Where SellerNo='SP1047';

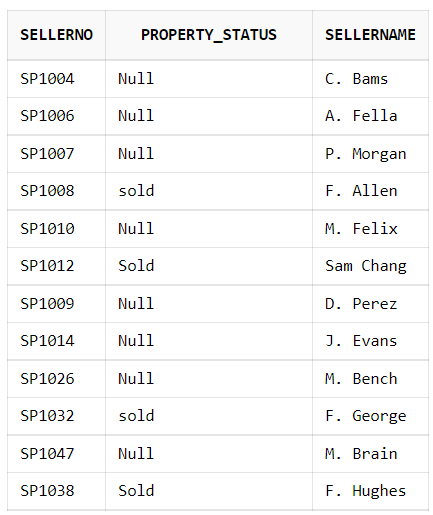
update Seller

set SellerName='F. Hughes'

Where SellerNo='SP1038';

SELECT \*

FROM Seller;



Now back to the question,

We need to join 4 tables together with the code as follows;

SELECT V. AppointmentNo,V. BuyerNumber,V. PropertyCode,P. Buyer\_Name AS PotentialBuyer,M. SellerName,L. Address AS Property\_Address,S. Staff\_name,V. AppointmentDate,V. Appointmenttime

FROM Viewing\_Appointment V, Potential\_Buyer P, Sale\_Property L, Staff\_Member S,Seller M

WHERE V. StaffNo = S. StaffNo AND M. SellerNo = L. SellerNo AND V. BuyerNumber = P. BuyerNumber AND L. PropertyCode = V. PropertyCode ;

