PG Exercise

Schema:

CREATE TABLE land\_registry\_price\_paid\_uk(

transaction uuid,

price numeric,

transfer\_date date,

postcode text,

property\_type char(1),

newly\_built boolean,

duration char(1),

paon text,

saon text,

street text,

locality text,

city text,

district text,

county text,

ppd\_category\_type char(1),

record\_status char(1));

1. Find the Postcode with highest average sale price.

select postcode

from land\_registry\_price\_paid\_uk

group by postcode

order by avg(price) desc

limit 1;

-[ RECORD 1 ]----

postcode | W8 5JN

2. Find the Highest sale price for each year.

select extract(year from transfer\_date),max(price)

from land\_registry\_price\_paid\_uk

group by extract(year from transfer\_date) order by max(price);

date\_part | max

-----------+-----------

1996 | 325000

1997 | 375000

1998 | 400000

1999 | 408000

2003 | 481500

2000 | 495000

1995 | 650000

2001 | 675000

2005 | 680000

2006 | 735000

2011 | 895001

2008 | 900000

2007 | 950000

2012 | 1050000

2004 | 1372500

2010 | 1650000

2002 | 1750000

2009 | 2937987

2013 | 5881800

2015 | 11500000

2014 | 15400000

2017 | 20930000

2016 | 23100000

2018 | 43100000

2019 | 194800000

(25 rows)

3)Find the Date with most sales.

select transfer\_date,count(transaction)

from land\_registry\_price\_paid\_uk

group by transfer\_date

order by count(transaction) desc

limit 1;

transfer\_date | count

---------------+-------

2019-04-26 | 6753

(1 row)

4: Find number of sales per pincode per year

select count(transaction),postcode,extract(year from transfer\_date)

from land\_registry\_price\_paid\_uk

group by postcode,extract(year from transfer\_date)

order by extract(year from transfer\_date);

Result is too big

5:Total sale per month

select extract(month from transfer\_date),count(transaction)

from land\_registry\_price\_paid\_uk

group by extract(month from transfer\_date)

order by extract(month from transfer\_date);

date\_part | count

-----------+-------

1 | 2082

2 | 3551

3 | 12126

4 | 38629

5 | 25784

6 | 631

7 | 605

8 | 700

9 | 985

10 | 1264

11 | 2854

12 | 3379

(12 rows)

6 Find Total sale amount per month per pincode by year.

select count(transaction),

extract(month from transfer\_date),

postcode,

extract(year from transfer\_date)

from land\_registry\_price\_paid\_uk

group by extract(month from transfer\_date),

postcode,

extract(year from transfer\_date)

order by

extract(year from transfer\_date);

Result is too big

7 Create a daily cumulative sales report for 2019. Each day should have previous days sale amount added.

select transfer\_date,price,

sum(price) over(order by transfer\_date) as cumulative\_price

from land\_registry\_price\_paid\_uk

where transfer\_date between '2019-01-01' and '2019-12-31';