

```
In [2]: #RAMGOPAL PUSID:918450087
import psycopg2
import pandas as pd
```

```
In [3]: #connecting to postgres sql
conn =psycopg2.connect(database="postgres",user="postgres",password="Chinnu.969",host="loc
```

```
In [4]: #checking the connection
sql='''SELECT datname FROM pg_database'''
conn.autocommit=True
cursor=conn.cursor()
cursor.execute(sql)
```

```
In [18]: #prinitng results
for i in cursor.fetchall():
    print(i)
```

## 1.Find the sales of the department beds on date 2010-10-15 only store\_type A

```
In [14]: sql='''SELECT s.store_id,s.week_sales,d.department,st.type_id
FROM department d
INNER JOIN sales s ON d.department_id=s.dept_id
INNER JOIN store st ON s.store_id=st.store_id
WHERE d.department_id=(select department_id from department where department ='beds') and
cursor.execute(sql)

for i in cursor.fetchall():
    print(i)
```

```
(1, Decimal('297'), 'beds', 'A')
(2, Decimal('987'), 'beds', 'A')
(4, Decimal('1134'), 'beds', 'A')
(6, Decimal('954.5'), 'beds', 'A')
(8, Decimal('513'), 'beds', 'A')
(11, Decimal('799'), 'beds', 'A')
(13, Decimal('1409.5'), 'beds', 'A')
(14, Decimal('911'), 'beds', 'A')
(19, Decimal('1315'), 'beds', 'A')
(20, Decimal('1503'), 'beds', 'A')
(24, Decimal('1766'), 'beds', 'A')
(26, Decimal('1055'), 'beds', 'A')
(27, Decimal('1877'), 'beds', 'A')
(28, Decimal('1195.5'), 'beds', 'A')
(31, Decimal('337'), 'beds', 'A')
(32, Decimal('969'), 'beds', 'A')
(34, Decimal('664'), 'beds', 'A')
(39, Decimal('285'), 'beds', 'A')
(40, Decimal('577'), 'beds', 'A')
(41, Decimal('1179'), 'beds', 'A')
```

## 2. Get the avg unemployment during the working days from all store\_type village

```
In [12]: sql='''SELECT AVG(unemployment),e.store_id,st.type_id
FROM unemployment e
INNER JOIN isholiday da ON e.date=da.date
INNER JOIN store st ON st.store_id=e.store_id
WHERE da.holiday='f' and st.type_id=(select distinct(st.type_id) from store st join store_
ore_id,st.type_id ,da.holiday
```

```
ORDER BY e.store_id  
'''
```

```
In [13]: cursor.execute(sql)  
         for i in cursor.fetchall():  
             print(i)  
  
(Decimal('7.6171203007518797'), 30, 'C')  
(Decimal('7.8611804511278195'), 37, 'C')  
(Decimal('13.1011954887218045'), 38, 'C')  
(Decimal('8.3569172932330827'), 42, 'C')  
(Decimal('9.9296766917293233'), 43, 'C')  
(Decimal('6.7287969924812030'), 44, 'C')
```

```
In [ ]:
```