

FINAL TASK VIX

DATA ENGINEER

KALBE NUTRITIONALS

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Ivan Yudha

About Me

As a graduate of Diploma in Informatics Engineering from Dian Nuswantoro University. I am currently interested in experience in the field of Data and Business Intelligence



My Experience

Project-Based Intern: **Data Engineer** Virtual Internship Experience at Kalbe Nutritionals x Rakamin Academy

Customer Care Telkomsel

Software Engineering BPBD Provinsi Jawa Tengah

Create shell/bash



Create a shell/bash script to check whether directory exists inside a given path.

```
check directory.sh
  GNU nano 6.2
#!/bin/bash
path="/hdfs/data/data1"
name of directory="data1"
filename excel="daily market price.xlsx"
source dir="/local/data/market"
target dir="$path/$name of directory"
if [ -d "$target dir" ]; then
        echo "There is $name of directory Directory Exist!"
        if [ -f "$source dir/$filename excel" ]; then
                cp "$source_dir/$filename_excel" "$target_dir/"
                echo "File $filename excel copied to $target dir"
                log file="$target dir/log.txt"
                echo "File Moved Successfully" > "$log file"
                echo "Log Created at: $log file"
                echo "File $filename excel not found in source directory"
        echo "$name of directory Directory Not Exist!"
        mkdir "$target dir"
        echo "Created $name of directory directory inside $path"
```

- nano check_directory.sh (untuk membuat skrip tersebut dengan variable bernama check_directory.sh)
- 2. Crontab –e, untuk membuat skrip berjalan setiap jam 7 AM

:/mnt/c/WINDOWS/system32\$ crontab -e

```
# m h dom mon dow command
0 7 * * * /path/to/check directory.sh
```

Python to PostgreSQL

Python connection to PostgreSQL

```
import psycopg2
host = 'localhost'
database = 'KARYAWAN'
user = 'ivan'
password = 'ivanyudha'
conn = psycopg2.connect(
    host=host,
    database=database,
    user=user,
    password=password
cursor = conn.cursor()
insert sql = (
values = ('Rizki', 'Ridho', 23, 'Pria', 4000000)
    cursor.execute(insert_sql, values)
    conn.commit()
    conn.rollback()
   if conn:
        conn.close()
```

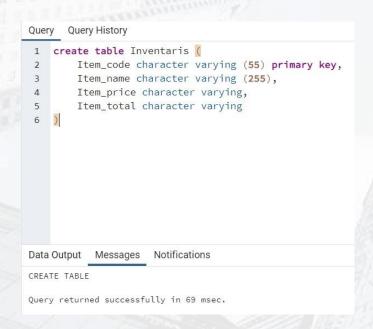


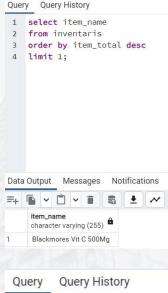
- Install psycopg2 via terminal or command prompt (pip install psycopg2)
- 2. Create a Python connection to PostgreSQL using psycopg2

Create Database



Create an inventory table and display item_name which has the highest number item_total





- If adding another item_name with item_code 2343 then it cannot be done, because the code already exists and is used as the primary key
- 2. Remove the lowest item_name item_total number

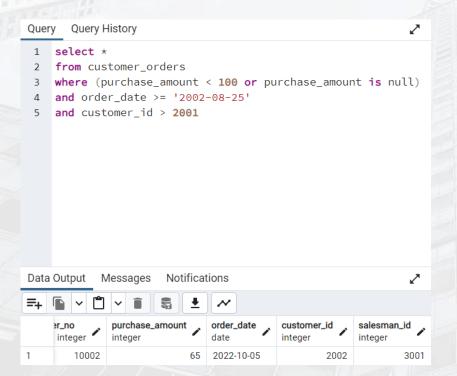
Query Query History

1 delete from inventaris
2 where item_total = (select min(item_total) from inventaris)





Query to show customers whose purchase amount is less than 100 or exclude orders whose order date is on or later than August 25, 2022 and customer id is above 2001







Please explain what's wrong in this image and provide the best solution for this case.



From the picture above, there is an output error given, the output should be "Surabaya" because the parameter (nvarchar(max),null) will produce the maximum value in the ddlPlant variable.



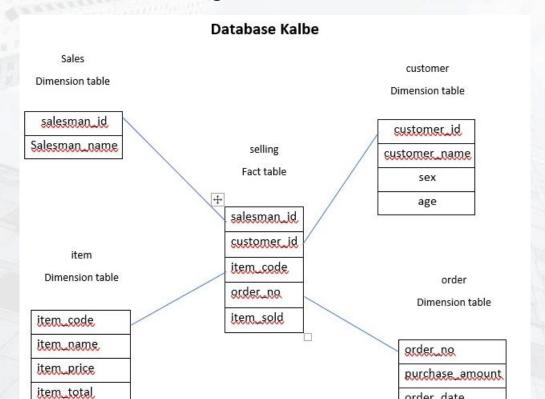


Star Schema has one dimension table for each dimension, which contains a set of attributes. The fact table in the middle contains the keys for each dimension and attribute such as sales and units sold. This schema can cause data redundancy because each dimension has only one dimension table.

Star Schema



simple star schema example for Kalbe database consisting of 1 fact and 5 dimensions using Data Mode Theory



Video Presentation



https://drive.google.com/file/d/11tcHCUZWnn9cssw4cBYhAMXRcMd9Tqdm/view?usp=sharing

Thank You



