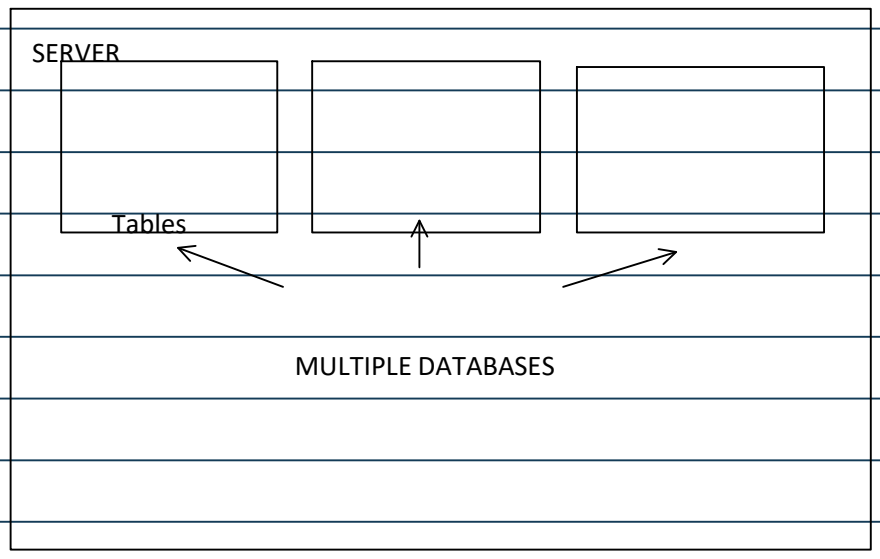
ETL

Saturday 23 March 2024 9:27 PM

OLTP (Database)(Relational DB) ----PIPELINE----> OLAP (Data Warehouse)(Column DB)



LOADING PROCESS

```
[83] import pymysql
     from sqlalchemy import create_engine

[82] ! pip install pymysql

     Looking in indexes: https://pypi.org/simple, https://us-python.pkg.dev/colab-wheels/public/simple/
     Collecting pymysql
       Downloading PyMySQL-1.0.2-py3-none-any.whl (43 kB)
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     Installing collected packages: pymysql
     Successfully installed pymysql-1.0.2

[84] mycursor = conn.cursor()

     mycursor.execute('CREATE DATABASE dream11')
     conn.commit()
```

```
[84] mycursor = conn.cursor()

[85] mycursor.execute('CREATE DATABASE dream11')
     conn.commit()

     engine = create_engine("mysql+pymysql://admin:911Pentagon@database-olap.codzmntflx6t.ap-northeast-1.rds.amazonaws.com/dream11")
     # {root}:{password}@{url}/{database}
     export_df.to_sql('batter_points', con = engine)
```

pandas.read_sql_query

pandas.read_sql_query(*sql*, *con*, *index_col=None*, *coerce_float=True*, *params=None*, *parse_dates=None*, *chunksize=None*, *dtype=None*, *dtype_backend=_NoDefault.no_default*) [source]

Read SQL query into a DataFrame.

Returns a DataFrame corresponding to the result set of the query string. Optionally provide an *index_col* parameter to use one of the columns as the index, otherwise default integer index will be used.

pandas.DataFrame.to_sql

DataFrame.to_sql(*name*, *con*, ***, *schema=None*, *if_exists='fail'*, *index=True*, *index_label=None*, *chunksize=None*, *dtype=None*, *method=None*) # [source]

Write records stored in a DataFrame to a SQL database.

Databases supported by SQLAlchemy [1] are supported. Tables can be newly created, appended to, or overwritten.

Using environment variables to securely code with usernames and passwords how?

↳ os.environ. ——