```
In [2]:
from sqlalchemy import create engine, Column, Integer, String
from sqlalchemy.orm import sessionmaker
from sqlalchemy.ext.declarative import declarative base
In [3]:
engine = create engine('mssql+pyodbc://@IN3457604W1\SQLEXPRESS/db1?trusted connection=yes
&driver=ODBC+Driver+17+for+SQL+Server', echo=True)
In [4]:
Base = declarative base()
# Define the User model
class User(Base):
     tablename = 'users'
    id = Column(Integer, primary_key=True)
    name = Column(String)
    email = Column(String)
C:\Users\PY421JS\AppData\Local\Temp\ipykernel 23864\259522383.py:1: MovedIn20Warning: The
``declarative base()`` function is now available as sqlalchemy.orm.declarative base(). (d
eprecated since: 2.0) (Background on SQLAlchemy 2.0 at: https://sqlalche.me/e/b8d9)
  Base = declarative base()
In [6]:
Base.metadata.create all(engine)
# Create a new session
Session = sessionmaker(bind=engine)
session = Session()
2024-01-17 11:01:22,711 INFO sqlalchemy.engine.Engine SELECT CAST(SERVERPROPERTY('Product
Version') AS VARCHAR)
2024-01-17 11:01:22,711 INFO sqlalchemy.engine.Engine [raw sql] ()
2024-01-17 11:01:22,711 INFO sqlalchemy.engine.Engine SELECT schema name()
2024-01-17 11:01:22,711 INFO sqlalchemy.engine.Engine [generated in 0.00099s] ()
2024-01-17 11:01:22,737 INFO sqlalchemy.engine.Engine SELECT CAST('test max support' AS N
VARCHAR (max) )
2024-01-17 11:01:22,737 INFO sqlalchemy.engine.Engine [generated in 0.00098s] ()
2024-01-17 11:01:22,737 INFO sqlalchemy.engine.Engine SELECT 1 FROM fn listextendedproper
ty(default, default, default, default, default, default)
2024-01-17 11:01:22,749 INFO sqlalchemy.engine.Engine [generated in 0.00220s] ()
2024-01-17 11:01:22,802 INFO sqlalchemy.engine.Engine BEGIN (implicit)
2024-01-17 11:01:22,806 INFO sqlalchemy.engine.Engine SELECT [INFORMATION SCHEMA].[TABLES
].[TABLE NAME]
FROM [INFORMATION SCHEMA].[TABLES]
WHERE ([INFORMATION SCHEMA].[TABLES].[TABLE TYPE] = CAST(? AS NVARCHAR(max)) OR [INFORMAT
ION SCHEMA].[TABLES].[TABLE TYPE] = CAST(? AS NVARCHAR(max))) AND [INFORMATION SCHEMA].[T
ABLES].[TABLE NAME] = CAST(? AS NVARCHAR(max)) AND [INFORMATION SCHEMA].[TABLES].[TABLE S
CHEMA] = CAST(? AS NVARCHAR(max))
2024-01-17 11:01:22,807 INFO sqlalchemy.engine.Engine [generated in 0.00103s] ('BASE TABL
E', 'VIEW', 'users', 'dbo')
2024-01-17 11:01:22,820 INFO sqlalchemy.engine.Engine COMMIT
In [10]:
# Query the user
user = session.query(User).filter(User.id==1)
for i in user:
    print(i.email)
2024-01-17 11:16:41,296 INFO sqlalchemy.engine.Engine SELECT users.id AS users id, users.
name AS users name, users.email AS users email
FROM users
```

```
WHERE users.id = ?
2024-01-17 11:16:41,297 INFO sqlalchemy.engine.Engine [generated in 0.00127s] (1,)
dip@gmail
In [11]:
user.update({User.email: "dipangshumandal@gmail.com"})
2024-01-17 11:42:14,543 INFO sqlalchemy.engine.Engine UPDATE users SET email=? WHERE user
s.id = ?
2024-01-17 11:42:14,544 INFO sqlalchemy.engine.Engine [generated in 0.00121s] ('dipangshu
mandal@gmail.com', 1)
Out[11]:
1
In [12]:
session.commit()
2024-01-17 11:42:22,568 INFO sqlalchemy.engine.Engine COMMIT
In [13]:
session.close()
In [ ]:
```