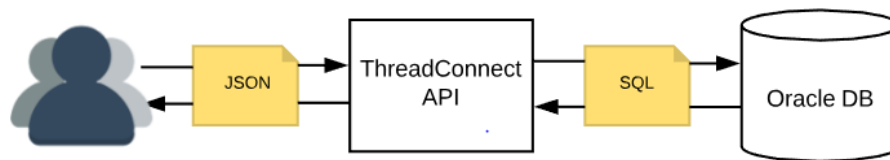# INSERT OPERATION ON ORACLE DB

To perform insert operation on Oracle database.
Add POST API request data (employee details) as record into the specified table of Oracle DB.

Created by K Sanghavi

KEY ATTRIBUTES

- `HandleHttpRequest`: creates POST API endpoint by specifying the port and path to be listening to.
- `HandleHttpResponse`: sends API response along with the specified status code
- `PutSQL`: inputs the record passed as data for the POST call into "EMPLOYEE" table.
- `ConvertJSONToSQL`: converts flat JSON into corresponding SQL statement using the details of "EMPLOYEE" table.

CONTROLLER SERVICES USED

- `StandardHttpContextMap`: allows to store & retrieve HTTP requests & responses
- `DBCPConnectionPool`: connects to the specified Oracle database

NOTES

- The template requires Oracle DB with following requirements:
  Table Name: EMPLOYEE
  Schema:
  {
  "column name" : "type"
  EMP_ID : integer,
  EMP_NAME : character varying,
  EMP_ADDRESS : character varying
  }
  Database Driver Location : Oracle JDBC Driver jar location (download from
  https://www.oracle.com/technetwork/database/features/jdbc/jdbc-drivers-12c-download-1958347.html)
- Carefully check that database configuration details are updated across the **entire** flow when configuring a new database connection.

- The Post API requires JSON data in the format
  Example:
  ```
  {
    "EMP_ID": 47,
    "EMP_NAME": "Ram",
    "EMP_ADDRESS":"Church street"
  }
  ```