```
Last session : Rule Engine
______
-> Rule Engines are used to seperate java logic with business rules
-> Realtime use cases for rule engines
                1) Loan Eligibility Determination
                2) Insurance Plan Eligibility Determination
-> In IES application we are using Rule Engine to determine citizen eligibility for
the plan.
-> ED module will interact with ED-RULES-API to determine citizen eligibility.
-> ED-RULES-API will take "citizen data" as input and it provides "plan data" as
output
-> After recieving response from "ED-RULES-API" ED module will insert data into below
2 database tables.
                1) ED ELIGIBILITY DETAILS
                2) CO TRIGGERS
create table co triggers
        trg id number,
        case num number,
        create dt date,
        trg status varchar2(10),
        update dt date,
        primary key (trg_id)
);
DECLARE
i number:=1;
trg id number:=100;
case no number:=1;
BEGIN
WHILE i <=10000 LOOP
    INSERT INTO CO TRIGGERS (TRG ID, CASE NUM, CREATE DT, TRG STATUS, UPDATE DT) VALUES
(trg id, case no, sysdate, 'P', null);
    \bar{i} := i + 1;
    trg id:=trg id +1;
    case no:=case no+1;
  END LOOP;
END;
 create table eligibility details (
       ed_trace_id number(10,0) not null,
        benefit amt varchar2(255),
        case num number (19,0),
        create_dt date,
        denial reason varchar2(255),
        plan end dt varchar2(255),
        plan name varchar2(255),
```

```
plan status varchar2(255),
        update dt date,
        primary key (ed_trace_id)
    )
i number:=1;
ed_trace_id number:=100;
case no number:=1;
BEGIN
WHILE i <=10000 LOOP
    insert into ELIGIBILITY DETAILS
values(ed trace id, '$600', case no, sysdate, null, null, 'SNAP', sysdate, 'AP', null);
    i := i + 1;
    ed_trace_id:=ed_trace_id +1;
    case no:=case no+1;
  END LOOP;
END;
```

Assignment

1) Create Spring Boot application with below starters

plan start dt varchar2(255),

- 1) web
- 2) data-jpa
- 3) lombok
- 4) swagger
- 5) oracle
- 2) Create Entity classes & Repositories for below tables
 - 1) co triggers
 - 2) eligibility details
- 3) Execute PLSQL script in database (To insert data)