#### **Database Programming**

**Practical Exercise #7** 

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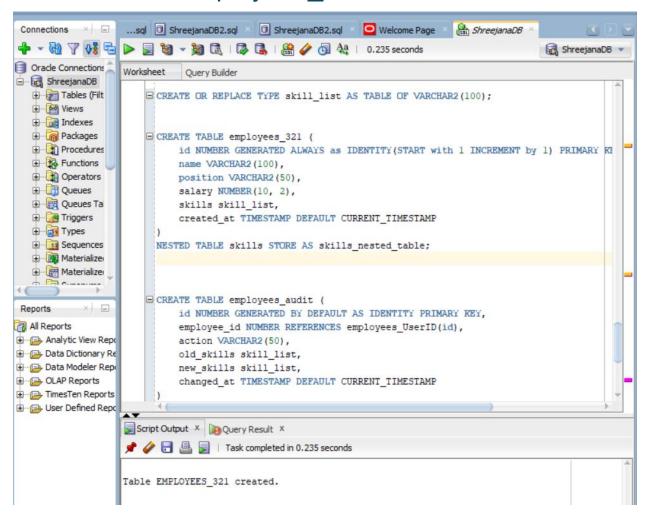
#### # Question 1: nested skill list creation

```
Connections × 🖃 ...sql 🗊 ShreejanaDB2.sql × 📵 Welcome Page × 🔝 ShreejanaDB
💠 🕶 🖓 🖓 📢 🕒 🗩 🛢 🐚 🕶 🗟 | 🗟 | 🙈 🥢 💁 ધ |

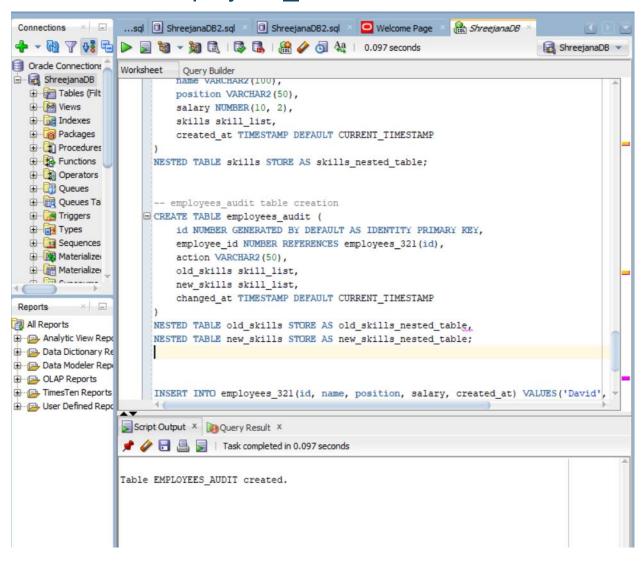
    ShreejanaDB ▼

Oracle Connections
                 Worksheet Query Builder
⊡.... ShreejanaDB
  ± ⊞ Tables (Filt
                     ☐ CREATE OR REPLACE TYPE skill list AS TABLE OF VARCHAR2(100);
  ± ... M Views
  ⊕ 🖟 Packages
                     ☐ CREATE TABLE employees_321(
  ⊕ Procedures
                         id number(10) GENERATED ALWAYS as IDENTITY(START with 1 INCREMENT by 1) PRIMAL
  ⊕ Functions
                         name varchar2(100),
  ⊕ Operators
                         position varchar2(50),
  🕀 📆 Queues
                          salary number(10, 2),
  ⊕ Queues Ta
                          created_at TIMESTAMP,
                           CONSTRAINT employeeSkill pk FOREIGN KEY (skills) REFERENCES skill list(id)
  🗓 🔐 Triggers
  ⊕ 🙀 Types
                      );
  ⊕ 🛅 Sequences
  ⊕ Materialize
                     ☐ CREATE TABLE employees_321 (
  ⊕ ⊞ Materialize
                         id NUMBER GENERATED ALWAYS as IDENTITY (START with 1 INCREMENT by 1) PRIMARY KI
                          name VARCHAR2(100),
                          position VARCHAR2 (50),
Reports
                          salary NUMBER(10, 2),
All Reports
                          skills skill list,
created_at TIMESTAMP DEFAULT CURRENT_TIMESTAMP
⊕ Data Dictionary Re
⊕ Data Modeler Rep
                       NESTED TABLE skills STORE AS skills nested table;
⊕ OLAP Reports
⊞ FimesTen Reports
Script Output X De Query Result X
                  📌 🧼 🖥 🚇 📦 | Task completed in 0.12 seconds
                  1 row updated.
                  Type SKILL_LIST compiled
```

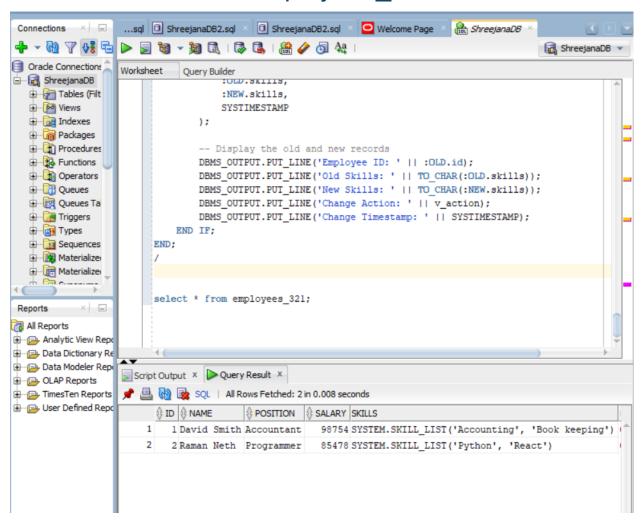
### # Question 2: employees\_321 table creation



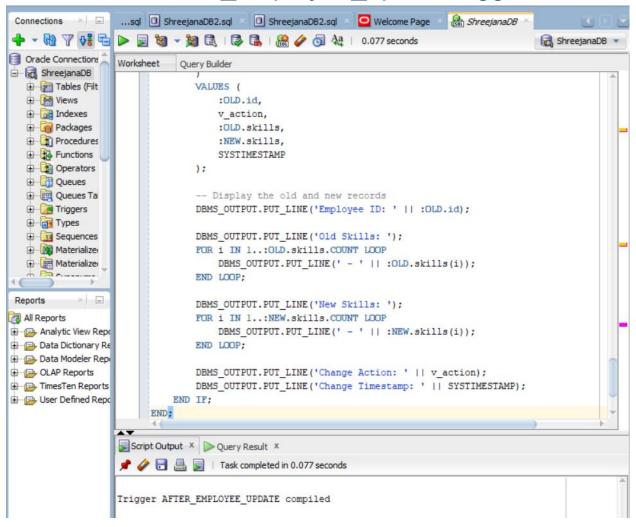
### Question 3: employees\_audit table creation

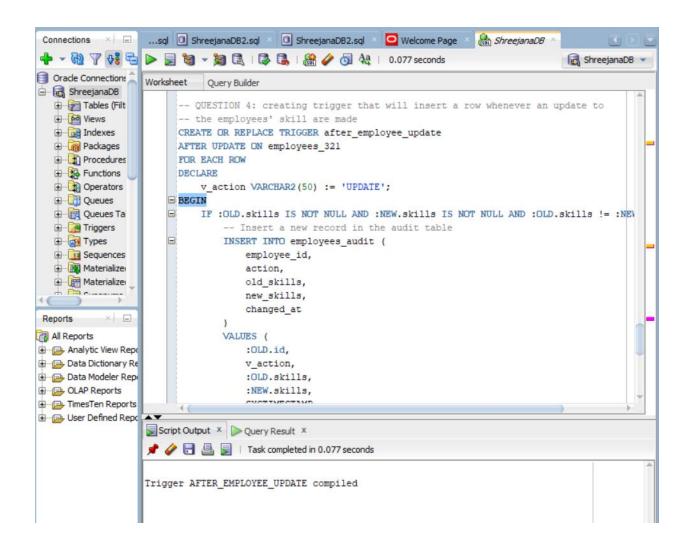


#### Insertion of data for employees\_321 table

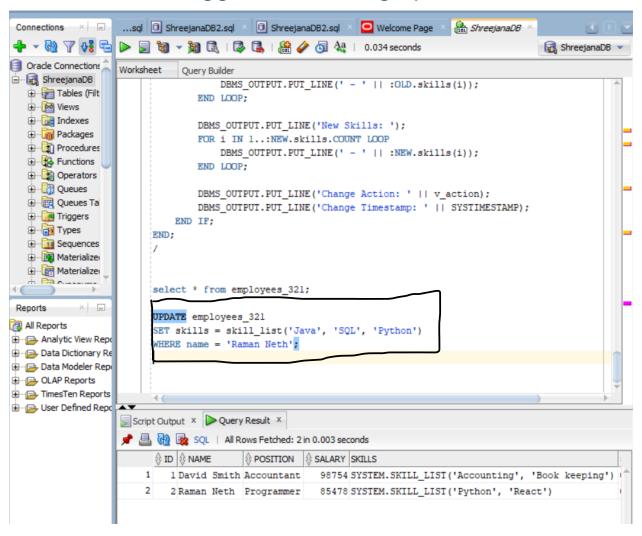


# # Question 4: after\_employee\_update trigger creation

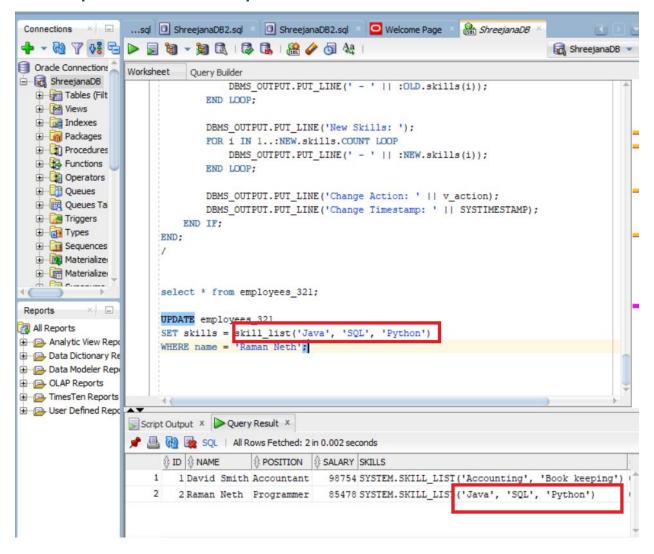




## # execution of trigger while doing update to the record



#### # Output after the update of the record



```
-- EXPLANATION

/* A row level trigger for employees_321 has been created that would fire after updating operation is performed on the table.

Once the update query is run for the employee with name Raman Neth, the above trigger after_employee_update is fired and it will display the results updating the records

*/
```

