Question 1: Output

1. Find the names and the corresponding average ActualDuration of customers who have received service from an employee 'Emp 2'.

*Note- Here I am ignoring the NULL values for calculating the average, because that customer has not completely received service from 'Emp 2'*

*hence its actual duration wasn't captured*

Graphical user interface, application

Description automatically generated

1. List the names of all the employees and the corresponding service(s) that each of these employee is allowed to perform

Text

Description automatically generated with medium confidence

Question 2: Output

Consider CustomerServiceFacts table created as follows:

create table customerservicesFacts(ID int, CID int, STID int, ExpectedDuration int);

Create a trigger that performs live ETL (Extract Translate and Load) from CustomerService table to CustomerServiceFacts table.  In other words the trigger shall copy any new record that gets inserted in CustomerService table into CustomerServiceFacts table as well as updates the ExpectedDuration in CustomerServiceFacts table if any update of ExpectedDuration in CustomerService table takes place.

Graphical user interface, application

Description automatically generated

1. ***A new value was added in CustomerService Table and the trigger added that record to CustonerServicesFacts table***

INSERT INTO "HR"."CUSTOMERSERVICE" (ID, CID, STID, EXPECTEDDURATION) VALUES ('5', '2', '1', '15')

Commit Successful

Graphical user interface, text, application

Description automatically generated

1. ***An expectedduration value was updated in CustomerService Table from 15 to 60 for CID = 2 and STID = 1 and the trigger updated that record in CustonerServicesFacts table as shown below.***

UPDATE "HR"."CUSTOMERSERVICE" SET EXPECTEDDURATION = '60' WHERE ROWID = 'AAATjLAAMAAAAFlAAA' AND ORA\_ROWSCN = '3110562'

Commit Successful

Graphical user interface, application, table

Description automatically generated

Question 3: Output

Write a stored procedure that performs the batch ETL i.e. copies all the data currently in Customer table into CustomerDim table when invoked.  The CustomerDim table has the same composition as the Customer table.

Graphical user interface, application

Description automatically generated

***After executing the stored procedure, it copied all the values from Customer table to CustomerDim table as shown below.***

Table

Description automatically generated