Oracle Database

# Engineer table

**Table SQL**

CREATE TABLE Engineer (

Employee\_Id VARCHAR(9),

Role VARCHAR(16),

Name VARCHAR(32),

CONSTRAINT Engineer\_empId\_pk PRIMARY KEY(Employee\_Id),

CONSTRAINT Engineer\_Role CHECK(Role = 'Test' OR Role = 'Software'));

**Tuple SQL**

INSERT INTO Engineer

VALUES('000000001', 'Test', 'John Smith');

INSERT INTO Engineer (Employee\_Id, Role, Name)

WITH names as (

SELECT '000000005', 'Test', 'mary Strange' FROM dual UNION ALL

SELECT '000000006', 'Software', 'Ritchie Janey' FROM dual UNION ALL

SELECT '000000007', 'Test', 'Gary Brown' FROM dual UNION ALL

SELECT '000000008', 'Software', 'Tori Kimmie' FROM dual UNION ALL

SELECT '000000009', 'Software', 'Finlay Lark' FROM dual UNION ALL

SELECT '000000010', 'Test', 'Linton Nona' FROM dual

)

SELECT \* FROM names

INSERT INTO Engineer (Employee\_Id, Role, Name)

WITH names as (

SELECT '000000003', 'Test', 'Cody Strange' FROM dual UNION ALL

SELECT '000000004', 'Software', 'Lucy Smith' FROM dual

)

SELECT \* FROM names

INSERT INTO Engineer

VALUES('000000002', 'Software', 'Johnny Green');

**Table Oracle**

Table

Description automatically generated

# Software table

**Table SQL**

CREATE TABLE Software(

Software\_Id VARCHAR(9),

Type VARCHAR(16),

Description VARCHAR(500),

CONSTRAINT Software\_softId\_pk PRIMARY KEY(Software\_Id),

CONSTRAINT Software\_Type CHECK(Type= 'Software' OR Type = 'Test'));

**Tuple SQL**

INSERT INTO SOFTWARE

WITH names as (

SELECT '000000001', 'Test', 'Tests for bug one'FROM dual UNION ALL

SELECT '000000002', 'Software', 'Home button' FROM dual UNION ALL

SELECT '000000003', 'Test', 'Test home button' FROM dual UNION ALL

SELECT '000000004', 'Software', 'Show ad' FROM dual UNION ALL

SELECT '000000005', 'Software', 'Redirect to contact' FROM dual UNION ALL

SELECT '000000006', 'Software', 'Show username' FROM dual UNION ALL

SELECT '000000007', 'Software', 'Change password' FROM dual UNION ALL

SELECT '000000008', 'Software', 'Create new user' FROM dual UNION ALL

SELECT '000000009', 'Software', 'Voice chat button' FROM dual UNION ALL

SELECT '000000010', 'Test', 'Test voice chat' FROM dual

)

SELECT \* FROM names

**Table Oracle**

Table

Description automatically generated

# Programs table

**Table SQL**

CREATE TABLE Programs (

Employee\_Id VARCHAR(9),

Software\_Id VARCHAR(9),

CONSTRAINT Programs\_empSoftId\_pk PRIMARY KEY(Employee\_Id, Software\_ID),

CONSTRAINT pefk FOREIGN KEY(Employee\_Id) REFERENCES Engineer(Employee\_Id),

CONSTRAINT psfk FOREIGN KEY(Software\_Id) REFERENCES Software(Software\_Id))

**Tuple SQL**

INSERT INTO Programs

VALUES('000000001', '000000003');

INSERT INTO Programs

VALUES('000000001', '000000001');

INSERT INTO Programs

VALUES('000000006', '000000008');

INSERT INTO Programs

VALUES('000000001', '000000010');

INSERT INTO Programs

VALUES('000000007', '000000003');

INSERT INTO Programs

VALUES('000000004', '000000004');

INSERT INTO Programs

VALUES('000000002', '000000009');

INSERT INTO Programs

WITH names (Employee\_Id, Software\_Id) as (

SELECT '000000009', '000000009' FROM dual UNION ALL

SELECT '000000002', '000000005' FROM dual UNION ALL

SELECT '000000003', '000000003' FROM dual

)

SELECT \* FROM names

**Table Oracle**

Table

Description automatically generated

# Executes Table

**Table SQL**

CREATE TABLE Executes(

Execute\_Id VARCHAR(9),

Result VARCHAR(8),

Employee\_Id VARCHAR(9),

Software\_Id VARCHAR(9),

CONSTRAINT Executes\_exId\_pk PRIMARY KEY(Execute\_Id),

CONSTRAINT eefk FOREIGN KEY (Employee\_Id) REFERENCES Engineer(Employee\_Id),

CONSTRAINT esfk FOREIGN KEY (Software\_Id) REFERENCES Software(Software\_Id));

**Tuple SQL**

INSERT INTO Executes

WITH names (Execute\_Id, Result, Employee\_Id, Software\_Id) as (

SELECT '000000001', 'Fail', '000000003', '000000003' FROM dual UNION ALL

SELECT '000000002', 'Fail', '000000001', '000000010' FROM dual UNION ALL

SELECT '000000003', 'Pass', '000000001', '000000010' FROM dual UNION ALL

SELECT '000000004', 'Fail', '000000003', '000000003' FROM dual UNION ALL

SELECT '000000005', 'Pass', '000000001', '000000001' FROM dual UNION ALL

SELECT '000000006', 'Pass', '000000001', '000000010' FROM dual UNION ALL

SELECT '000000007', 'Pass', '000000001', '000000003' FROM dual UNION ALL

SELECT '000000008', 'Pass', '000000003', '000000003' FROM dual UNION ALL

SELECT '000000009', 'Fail', '000000007', '000000003' FROM dual UNION ALL

SELECT '000000010', 'Pass', '000000007', '000000003' FROM dual

)

SELECT \* FROM names

**Table Oracle**

Table

Description automatically generated

# Time Table

**Table SQL**

CREATE TABLE Time(

Execute\_Id VARCHAR(9),

DOB DATE,

Time VARCHAR(5),

CONSTRAINT Time\_TId\_pk PRIMARY KEY(Execute\_Id),

CONSTRAINT tefk FOREIGN KEY (Execute\_Id) REFERENCES Executes(Execute\_Id));

**Tuple SQL**

INSERT INTO Time

WITH names (Execute\_Id, DOB, Time) as (

SELECT '000000001', '12/01/2021', '10:15' FROM dual UNION ALL

SELECT '000000002', '12/09/2021', '15:10' FROM dual UNION ALL

SELECT '000000003', '12/01/2021', '01:55' FROM dual UNION ALL

SELECT '000000004', '01/10/2022', '13:22' FROM dual UNION ALL

SELECT '000000005', '01/09/2022', '11:15' FROM dual UNION ALL

SELECT '000000006', '02/03/2022', '19:17' FROM dual UNION ALL

SELECT '000000007', '02/10/2022', '17:17' FROM dual UNION ALL

SELECT '000000008', '02/07/2022', '11:05' FROM dual UNION ALL

SELECT '000000009', '03/11/2022', '10:16' FROM dual UNION ALL

SELECT '000000010', '03/10/2022', '05:15' FROM dual

)

SELECT \* FROM names

**Table Oracle**

Table

Description automatically generated