

**Table Creation:**

CREATE TABLE **Customers**(

CustomerId NUMBER PRIMARY KEY,

Name VARCHAR2(100),

DOB DATE,

Balance NUMBER,

LastModified DATE

);

CREATE TABLE **Accounts**(

AccountId NUMBER PRIMARY KEY,

CustomerId NUMBER,

AccountType VARCHAR(20),

Balance NUMBER,

LastModified DATE,

FOREIGN KEY (CustomerId) References Customers(CustomerID)

);

CREATE TABLE **Transactions**(

TransactionId NUMBER PRIMARY KEY,

AccountId NUMBER,

TransactionDate DATE,

Amount NUMBER,

TransactionType VARCHAR2(10),

FOREIGN KEY(AccountId) REFERENCES Accounts(AccountId)

);

CREATE TABLE **Loans**(

LoanId NUMBER PRIMARY KEY,

CustomerId NUMBER,

LoanAmount NUMBER,

IntrestRate NUMBER,

StartDate DATE,

EndDate DATE,

FOREIGN KEY(CustomerId) REFERENCES Customers(CustomerId)

);

# Procedural Language/Structured Query Language

```
CREATE TABLE Employees(  
  
    EmployeeId NUMBER PRIMARY KEY,  
  
    Name VARCHAR2(100),  
  
    Position VARCHAR2(50),  
  
    Salary NUMBER,  
  
    Department VARCHAR2(50),  
  
    HireDate DATE  
  
);
```

## OUTPUT :

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```
1 CREATE TABLE Customers(  
2     CustomerId NUMBER PRIMARY KEY,  
3     Name VARCHAR2(100),  
4     DOB DATE,  
5     Balance NUMBER,  
6     LastModified DATE  
7 );  
8  
9 CREATE TABLE Accounts(  
10     AccountId NUMBER PRIMARY KEY,  
11     CustomerId NUMBER,  
12     AccountType VARCHAR(20),  
13     Balance NUMBER,  
14     LastModified DATE,  
15     FOREIGN KEY (CustomerId) References Customers(CustomerId)  
16 );  
17  
18 CREATE TABLE Transactions(  
19     TransactionId NUMBER PRIMARY KEY,  
20     AccountId NUMBER,  
21     TransactionDate DATE,  
22     Amount NUMBER,  
23     TransactionType VARCHAR2(10),  
24     FOREIGN KEY (AccountId) REFERENCES Accounts(AccountId)  
25 );  
26  
27 CREATE TABLE Loans(  
28     LoanId NUMBER PRIMARY KEY,  
29     CustomerId NUMBER,  
30     LoanAmount NUMBER,  
31     InterestRate NUMBER,  
32     StartDate DATE,  
33     EndDate DATE,  
34     FOREIGN KEY (CustomerId) REFERENCES Customers(CustomerId)  
35 );  
36  
37 CREATE TABLE Employees(  
38     EmployeeId NUMBER PRIMARY KEY,  
39     Name VARCHAR2(100),  
40     Position VARCHAR2(50),  
41     Salary NUMBER,  
42     Department VARCHAR2(50),  
43     HireDate DATE  
44 );
```

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```
1 CREATE TABLE Customers(  
2     CustomerId NUMBER PRIMARY KEY,  
3     Name VARCHAR2(100),  
4     DOB DATE,  
5     Balance NUMBER,  
6     LastModified DATE  
7 );  
8  
9 CREATE TABLE Accounts(  
10     AccountId NUMBER PRIMARY KEY,  
11     CustomerId NUMBER,  
12     AccountType VARCHAR(20),  
13     Balance NUMBER,  
14     LastModified DATE,  
15     FOREIGN KEY (CustomerId) References Customers(CustomerId)  
16 );  
17  
18 CREATE TABLE Transactions(  
19     TransactionId NUMBER PRIMARY KEY,  
20     AccountId NUMBER,  
21     TransactionDate DATE,  
22     Amount NUMBER,  
23     TransactionType VARCHAR2(10),  
24     FOREIGN KEY (AccountId) REFERENCES Accounts(AccountId)  
25 );  
26  
27 CREATE TABLE Loans(  
28     LoanId NUMBER PRIMARY KEY,  
29     CustomerId NUMBER,  
30     LoanAmount NUMBER,  
31     InterestRate NUMBER,  
32     StartDate DATE,  
33     EndDate DATE,  
34     FOREIGN KEY (CustomerId) REFERENCES Customers(CustomerId)  
35 );  
36  
37 CREATE TABLE Employees(  
38     EmployeeId NUMBER PRIMARY KEY,  
39     Name VARCHAR2(100),  
40     Position VARCHAR2(50),  
41     Salary NUMBER,  
42     Department VARCHAR2(50),  
43     HireDate DATE  
44 );
```

Query result | Script output | DBMS output | Explain Plan | SQL history

SQL> )

Error starting at line : 11 in command -  
)  
Error report -  
Unknown Command

Error at Line: 11 Column: 0

SQL> CREATE TABLE Employees(  
EmployeeId NUMBER PRIMARY KEY,  
Name VARCHAR2(100),  
Position VARCHAR2(50),...  
Show more...

ORA-03860: Data type VARCHAR2 is invalid.  
https://docs.oracle.com/error-help/db/ora-03860/  
Error at Line: 4 Column: 0

SQL> CREATE TABLE Employees(  
EmployeeId NUMBER PRIMARY KEY,  
Name VARCHAR2(100),  
Position VARCHAR2(50),...  
Show more...

Table EMPLOYEES created.

**INSERTING DATA INTO TABLES****INSERTING INTO CUSTOMERS TABLE**

```
INSERT INTO CUSTOMERS(CUSTOMERID,Name,DOB,Balance,LastModified) VALUES
(1, 'John Doe', TO_DATE('1985-05-15', 'YYYY-MM-DD'), 1000, SYSDATE),
(2, 'Jane Smith', TO_DATE('1990-07-20', 'YYYY-MM-DD'), 1500, SYSDATE);
```

```
INSERT INTO CUSTOMERS(CUSTOMERID,Name,DOB,Balance,LastModified) VALUES
(3,'Chaitanya Pyla',TO_DATE('1947-07-15', 'YYYY-MM-DD'), 150000, SYSDATE),
(4, 'Virat Kohli', TO_DATE('1918-08-18', 'YYYY-MM-DD'), 181818, SYSDATE),
(5,'MS Dhoni',TO_DATE('1907-07-07', 'YYYY-MM-DD'), 777777, SYSDATE);
```

**INSERTING INTO ACCOUNTS TABLE**

```
INSERT INTO Accounts (AccountID, CustomerID, AccountType, Balance, LastModified) VALUES
(1, 1, 'Savings', 1000, SYSDATE),
(2, 2, 'Checking', 1500, SYSDATE);
```

```
INSERT INTO Accounts (AccountID, CustomerID, AccountType, Balance, LastModified) VALUES
(3,3,'Chaitanya Pyla',150000,SYSDATE),
(4,4,'Virat Kohli',181818,SYSDATE),
(5,5,'MS Dhoni',777777,SYSDATE);
```

**INSERT INTO TRANSACTIONS TABLE**

```
INSERT INTO Transactions (TransactionID, AccountID, TransactionDate, Amount, TransactionType) VALUES
(1, 1, SYSDATE, 200, 'Deposit'),
(2, 2, SYSDATE, 300, 'Withdrawal');
```

```
INSERT INTO Transactions (TransactionID, AccountID, TransactionDate, Amount, TransactionType) VALUES
(4,4,SYSDATE,300,'Deposit'),
(3,3,SYSDATE,1500,'Deposit');
```

**INSERTING INTO LOANS TABLE**

```
INSERT INTO Loans (LoanID, CustomerID, LoanAmount, IntrestRate, StartDate, EndDate)
VALUES (1, 1, 5000, 5, SYSDATE, ADD_MONTHS(SYSDATE, 60));
```

*-- Loans for senior customers*

```
INSERT INTO Loans (LoanID, CustomerID, LoanAmount, IntrestRate, StartDate, EndDate) VALUES
(2, 3, 100000, 6.5, SYSDATE, ADD_MONTHS(SYSDATE, 24)),
(3, 4, 200000, 7.0, SYSDATE, ADD_MONTHS(SYSDATE, 36)),
(4, 5, 300000, 8.0, SYSDATE, ADD_MONTHS(SYSDATE, 48));
```

**INSERTING INTO EMPLOYEES TABLE**

```
INSERT INTO Employees (EmployeeID, Name, Position, Salary, Department, HireDate) VALUES
(1, 'Alice Johnson', 'Manager', 70000, 'HR', TO_DATE('2015-06-15', 'YYYY-MM-DD')),
(2, 'Bob Brown', 'Developer', 60000, 'IT', TO_DATE('2017-03-20', 'YYYY-MM-DD'));
```

*/\**

*As the given data do not meet certain conditions. So, In addition to the given data i also used dummy data*

*\*/*

The screenshot displays the Live SQL web application interface. On the left, a 'Navigator' pane shows a tree view of the database schema, including 'My Schema', 'Tables', and a search bar. The main area is divided into two sections: the top section shows the SQL code being executed, and the bottom section shows the 'Script output'.

The SQL code in the top section includes:

```

44 Department VARCHAR2(50),
45 HireDate DATE
46 );
47
48 -- INSERTING DATA INTO TABLES
49
50 -- INSERTING INTO CUSTOMERS TABLE
51
52 INSERT INTO CUSTOMERS (CUSTOMERID, Name, DOB, Balance, LastModified) VALUES
53 (1, 'John Doe', TO_DATE('1985-05-15', 'YYYY-MM-DD'), 1000, SYSDATE),
54 (2, 'Jane Smith', TO_DATE('1990-07-20', 'YYYY-MM-DD'), 1500, SYSDATE);
55
56

```

The 'Script output' section shows the results of the SQL execution:

Query result: <https://docs.oracle.com/error-help/db/ora-03060/>  
 Error at Line: 4 Column: 0

SQL> CREATE TABLE Employees(  
 EmployeeId NUMBER PRIMARY KEY,  
 Name VARCHAR2(100),  
 Position VARCHAR2(50),...

Table EMPLOYEES created.  
 Elapsed: 00:00:00.014

SQL> INSERT INTO CUSTOMERS(CUSTOMERID,Name,DOB,Balance,LastModified) VALUES  
 (1, 'John Doe', TO\_DATE('1985-05-15', 'YYYY-MM-DD'), 1000, SYSDATE),  
 (2, 'Jane Smith', TO\_DATE('1990-07-20', 'YYYY-MM-DD'), 1500, SYSDATE)

2 rows inserted.  
 Elapsed: 00:00:00.023

# Procedural Language/Structured Query Language

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CUSTOMERS

EMPLOYEES

LOANS

TRANSACTIONS

[SQL Worksheet]\*

44 Department VARCHAR2(50),

45 HireDate DATE

46 );

47

48 -- INSERTING DATA INTO TABLES

49

50 -- INSERTING INTO CUSTOMERS TABLE

51

52 INSERT INTO CUSTOMERS (CUSTOMERID, Name, DOB, Balance, LastModified) VALUES

53 (1, 'John Doe', TO\_DATE('1985-05-15', 'YYYY-MM-DD'), 1000, SYSDATE),

54 (2, 'Jane Smith', TO\_DATE('1990-07-20', 'YYYY-MM-DD'), 1500, SYSDATE);

55

56 -- INSERTING INTO ACCOUNTS TABLE

57

58 INSERT INTO Accounts (AccountID, CustomerID, AccountType, Balance, LastModified) VALUES

59 (1, 1, 'Savings', 1000, SYSDATE),

60 (2, 2, 'Checking', 1500, SYSDATE);

61

Query resultScript outputMore

SQL> INSERT INTO Accounts (AccountID, CustomerID, AccountType, Balance, LastModified)

(1, 1, 'Savings', 1000, SYSDATE),

(2, 2, 'Checking', 1500, SYSDATE)

ORA-00928: SELECT keyword missing

<https://docs.oracle.com/error-help/db/ora-00928/>

Error at Line: 4 Column: 0

SQL> INSERT INTO Accounts (AccountID, CustomerID, AccountType, Balance, LastModified) VALUES

(1, 1, 'Savings', 1000, SYSDATE),

(2, 2, 'Checking', 1500, SYSDATE)

2 rows inserted.

Elapsed: 00:00:00.020

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My Schema

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LASTMODIFIED

EMPLOYEES

EMPLOYEEID

NAME

POSITION

SALARY

DEPARTMENT

HIREDATE

LOANS

LOANID

CUSTOMERID

LOANAMOUNT

INTRESTRATE

STARTDATE

ENDDATE

TRANSACTIONS

TRANSACTIONID

ACCOUNTID

TRANSACTIONDATE

AMOUNT

TRANSACTIONTYPE

[SQL Worksheet]\*

59 (1, 1, 'Savings', 1000, SYSDATE),

60 (2, 2, 'Checking', 1500, SYSDATE);

61

62 -- INSERT INTO TRANSACTIONS TABLE

63

64 INSERT INTO Transactions (TransactionID, AccountID, TransactionDate, Amount, TransactionType) VALUES

65 (1, 1, SYSDATE, 200, 'Deposit'),

66 (2, 2, SYSDATE, 300, 'Withdrawal');

67

68 -- INSERTING INTO LOANS TABLE

69

70 INSERT INTO Loans (LoanID, CustomerID, LoanAmount, InterestRate, StartDate, EndDate)

71 VALUES (1, 1, 5000, 5, SYSDATE, ADD\_MONTHS(SYSDATE, 60));

72

73 -- INSERTING INTO EMPLOYEES TABLE

74

75 INSERT INTO Employees (EmployeeID, Name, Position, Salary, Department, HireDate) VALUES

76 (1, 'Alice Johnson', 'Manager', 70000, 'HR', TO\_DATE('2015-06-15', 'YYYY-MM-DD')),

77 (2, 'Bob Brown', 'Developer', 60000, 'IT', TO\_DATE('2017-03-20', 'YYYY-MM-DD'));

78

Query resultScript outputDBMS outputExplain PlanSQL history

<https://docs.oracle.com/error-help/db/ora-00928/>

Error at Line: 4 Column: 0

SQL> INSERT INTO Accounts (AccountID, CustomerID, AccountType, Balance, LastModified) VALUES

(1, 1, 'Savings', 1000, SYSDATE),

(2, 2, 'Checking', 1500, SYSDATE)

2 rows inserted.

Elapsed: 00:00:00.020

SQL> INSERT INTO Transactions (TransactionID, AccountID, TransactionDate, Amount, TransactionType) VALUES

(1, 1, SYSDATE, 200, 'Deposit'),

(2, 2, SYSDATE, 300, 'Withdrawal');

2 rows inserted.

Elapsed: 00:00:00.017

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ACCOUNTS

ACCOUNTID

CUSTOMERID

ACCOUNTTYPE

BALANCE

LASTMODIFIED

CUSTOMERS

CUSTOMERID

NAME

DOB

BALANCE

EMPLOYEES

EMPLOYEEID

NAME

POSITION

SALARY

DEPARTMENT

HIREDATE

LOANS

LOANID

[SQL Worksheet]\*

59 (1, 1, 'Savings', 1000, SYSDATE),

60 (2, 2, 'Checking', 1500, SYSDATE);

61

62 -- INSERT INTO TRANSACTIONS TABLE

63

64 INSERT INTO Transactions (TransactionID, AccountID, TransactionDate, Amount, TransactionType) VALUES

65 (1, 1, SYSDATE, 200, 'Deposit'),

66 (2, 2, SYSDATE, 300, 'Withdrawal');

67

68 -- INSERTING INTO LOANS TABLE

69

70 INSERT INTO Loans (LoanID, CustomerID, LoanAmount, InterestRate, StartDate, EndDate)

71 VALUES (1, 1, 5000, 5, SYSDATE, ADD\_MONTHS(SYSDATE, 60));

72

73 -- INSERTING INTO EMPLOYEES TABLE

74

75 INSERT INTO Employees (EmployeeID, Name, Position, Salary, Department, HireDate) VALUES

76 (1, 'Alice Johnson', 'Manager', 70000, 'HR', TO\_DATE('2015-06-15', 'YYYY-MM-DD')),

77 (2, 'Bob Brown', 'Developer', 60000, 'IT', TO\_DATE('2017-03-20', 'YYYY-MM-DD'));

78

Query resultScript outputDBMS outputExplain PlanSQL history

ORA-00904: "INTERESTRATE": invalid identifier

<https://docs.oracle.com/error-help/db/ora-00904/>

Error at Line: 4 Column: 0

SQL> INSERT INTO Loans (LoanID, CustomerID, LoanAmount, InterestRate, StartDate, EndDate)

VALUES (1, 1, 5000, 5, SYSDATE, ADD\_MONTHS(SYSDATE, 60))

1 row inserted.

Elapsed: 00:00:00.015

SQL> INSERT INTO Employees (EmployeeID, Name, Position, Salary, Department, HireDate) VALUES

(1, 'Alice Johnson', 'Manager', 70000, 'HR', TO\_DATE('2015-06-15', 'YYYY-MM-DD')),

(2, 'Bob Brown', 'Developer', 60000, 'IT', TO\_DATE('2017-03-20', 'YYYY-MM-DD'));

2 rows inserted.

Elapsed: 00:00:00.019