

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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TRANSACTIONS

[SQL Worksheet]*

```
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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[SQL Worksheet]*

```
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 interface. On the left, the Navigator shows the database schema with tables like ACCOUNTS, CUSTOMERS, EMPLOYEES, LOANS, and TRANSACTIONS. The main area is the SQL Worksheet, which contains the following code:

```

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 pane at the bottom shows the execution results:

```

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

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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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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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