ORACLELAB

BCA-DS-552

ManavRachnaInternationalInstituteofResearchandStudiesSch

oolofComputerApplications

DepartmentofComputerApplications

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SCHOOLOFCOMPUTERAPPLICATIONS

EXERCISE1

AIM:Createthefollowingtabl.

Customer

Column_name	Data type	Size	Constraint
SID	Varchar2	4	Primary Key
First_Name	Char	20	
Last_name	Char	20	

Orders

Column_name	Data type	Size	Constraint
Order_ID	Varchar2	4	Primary Key
Order_date	Char	20	
Customer_SID	Varchar2	20	Foreign Key
Amount	Number		Check > 20000

Output:

SQL Worksheet

```
1  CREATE TABLE Customer
2      (
3      SID VARCHAR2(4) PRIMARY KEY,
4      First_Name CHAR(20),
5      Last_name CHAR(20)
6  );
7
8  CREATE TABLE Orders
9      (
10     Order_ID VARCHAR2(4) PRIMARY KEY,
11     Order_date CHAR(20),
12     Customer_SID VARCHAR2(4),
13     Amount NUMBER CHECK (Amount > 20000),
14     FOREIGN KEY (Customer_SID) REFERENCES Customer(SID)
15 );
16
```

```
Table created.

Table created.
```

EXERCISE2

AIM: Insert5recordsforeachtabl

Output:

SQL Worksheet

```
1  INSERT INTO Customer  VALUES ('C001', 'John', 'Doe');
2  INSERT INTO Customer  VALUES ('C002', 'Jane', 'Smith');
3  INSERT INTO Customer  VALUES ('C003', 'Alex', 'James');
4  INSERT INTO Customer  VALUES ('C004', 'Chris', 'Evans');
5  INSERT INTO Customer  VALUES ('C005', 'Emma', 'Watson');
6
7  INSERT INTO Orders VALUES ('O001', '2024-08-01', 'C001', 25000);
8  INSERT INTO Orders VALUES ('O002', '2024-08-02', 'C002', 22000);
9  INSERT INTO Orders VALUES ('O003', '2024-08-03', 'C003', 21000);
10 INSERT INTO Orders VALUES ('O004', '2024-08-04', 'C004', 30000);
11 INSERT INTO Orders VALUES ('O005', '2024-08-05', 'C005', 31000);
12
```

SQL Worksheet

SID	FIRST_NAME	LAST_NAME
C001	John	Doe
C002	Jane	Smith
C003	Alex	James
C004	Chris	Evans
C005	Emma	Watson

Download CSV

5 rows selected.

ORDER_ID	ORDER_DATE	CUSTOMER_SID	AMOUNT
O001	2024-08-01	C001	25000
O002	2024-08-02	C002	22000
O003	2024-08-03	C003	21000
O004	2024-08-04	C004	30000
O005	2024-08-05	C005	31000

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EXERCISE3

AIM: CustomerSIDcolumnintheORDERStableisaforeignkeypointingtotheSID columnntheCUSTOMERtable.

Output:

```
CREATE TABLE Orders
    (
    Order_ID VARCHAR2(4) PRIMARY KEY,
    Order_date CHAR(20),
    Customer_SID VARCHAR2(4),
    Amount NUMBER CHECK (Amount > 20000),
    FOREIGN KEY (Customer_SID) REFERENCES Customer(SID)
);
```

EXERCISE4

AIM: Listthedetailsofthecustomersalongwiththeamount.

Output:

SQL Worksheet

```
1  SELECT SID, First_Name, Last_name, Amount
2  FROM Customer
3  JOIN Orders ON Customer.SID = Orders.Customer_SID;
4
```

SID	FIRST_NAME	LAST_NAME	AMOUNT
C001	John	Doe	25000
C002	Jane	Smith	22000
C003	Alex	James	21000
C004	Chris	Evans	30000
C005	Emma	Watson	31000

Download CSV

EXERCISE5

AIM: List thecustomerswhosenamesendwith“s”.

Output:

SQL Worksheet

```
1  select * from Customer  where trim(last_name) like '%s';
2
```

SID	FIRST_NAME	LAST_NAME
C003	Alex	James
C004	Chris	Evans

Download CSV

2 rows selected.