Dbase protect\_spam

DBMS ASSIGNMENT-1

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**Abstract:**

The Database Protect-Spam project is a sophisticated database system designed to protect users from spam by providing relevant suggestions based on their input. The system consists of five tables, including User, Category, Input, Keyword and Suggestion which capture and analyse user input data and provide appropriate feedback. Machine learning algorithms help identify patterns and relationships between different user inputs, enabling highly accurate and relevant suggestions. Users can provide feedback on the suggestions provided, further refining and improving the system's performance over time. Overall, the Database Protect-Spam system provides a powerful and user-friendly approach to spam protection, making it an essential tool for anyone looking to stay safe and secure online.

**Requirements:**

Tables that I have identified are: User, Category, Input, Keyword and Suggestion

**1.Users\_details Table:**

|  |  |  |
| --- | --- | --- |
| Attribute | Domain | CONSTARINT |
| Email | VARCHAR | Primary\_Key |
| Username | VARCHAR | Not Null |
| Password | VARCHAR | Not Null |
| DOB | DATE | Not Null |
| Phone Number | VARCHAR | Not Null |

**2.Login Table:**

|  |  |  |
| --- | --- | --- |
| Attribute | Domain | CONSTRAINT |
| Username | VARCHAR | Foreign key |
| Password | VARCHAR | Foreign key |

|  |  |  |
| --- | --- | --- |
| Attribute | Domain | Constraint |
| Id | VARCHAR | Primary\_Key |
| To | VARCHAR | Not Null |
| From | VARCHAR | Not Null |
| Type | VARCHAR | Not Null |
|  |  |  |

**3.Inbox Table:**

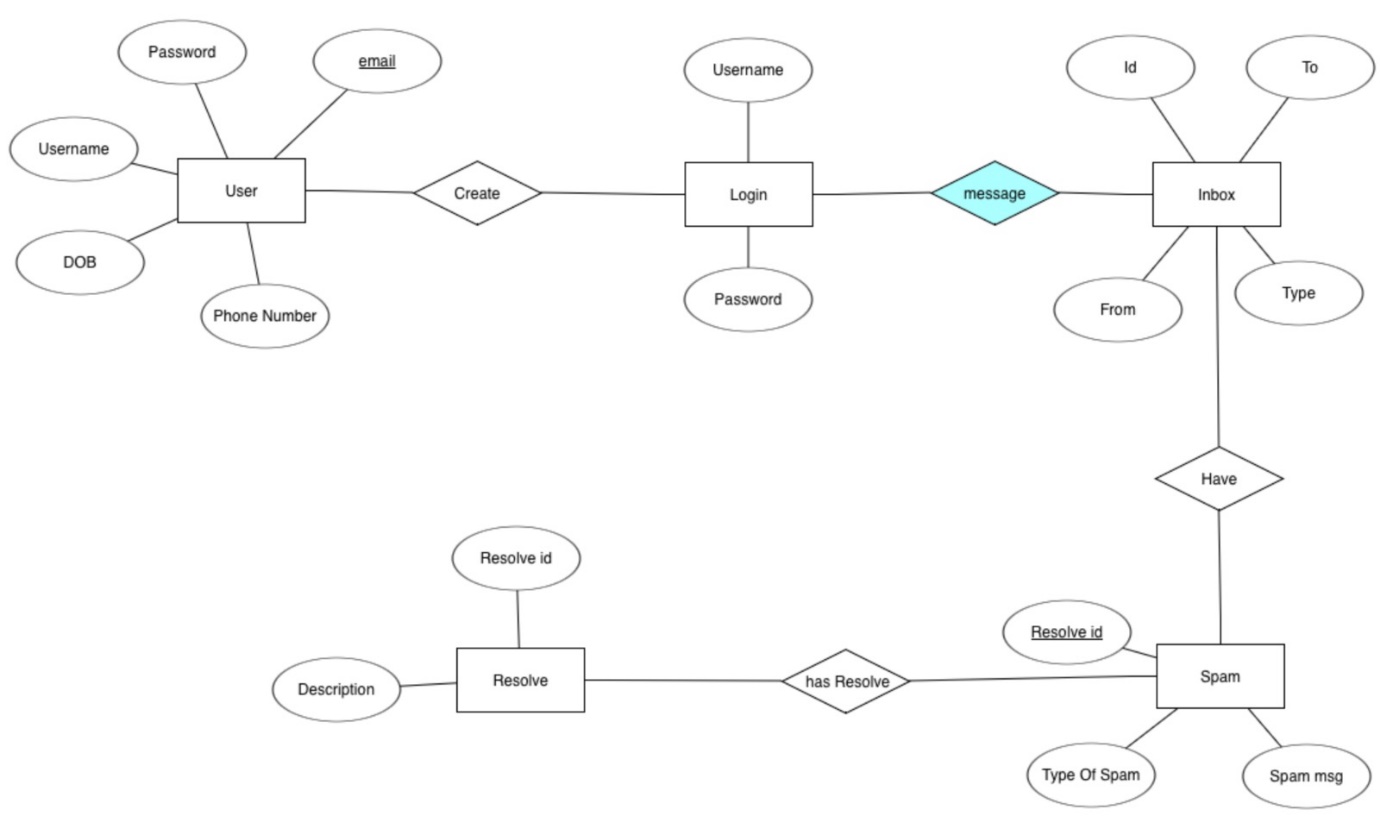
**4.Spam Table:**

|  |  |  |
| --- | --- | --- |
| Attribute | Domain | CONSTRAINT |
| Resolve id | VARCHAR | Primary\_Key |
| Type of spam | VARCHAR | Not Null |
| Spam msg | VARCHAR | Not Null |

**5.Resolve Table**

|  |  |  |
| --- | --- | --- |
| Attribute | Domain | CONSTRAINT |
| Resolve id | VARCHAR | Foreign\_Key |
| Description | VARCHAR | Not Null |

**ER Diagram:**



**DDL COMMANDS:**

1.Creating table for User\_details with constraints :

**QUERY**: create table user\_details(username varchar(20),

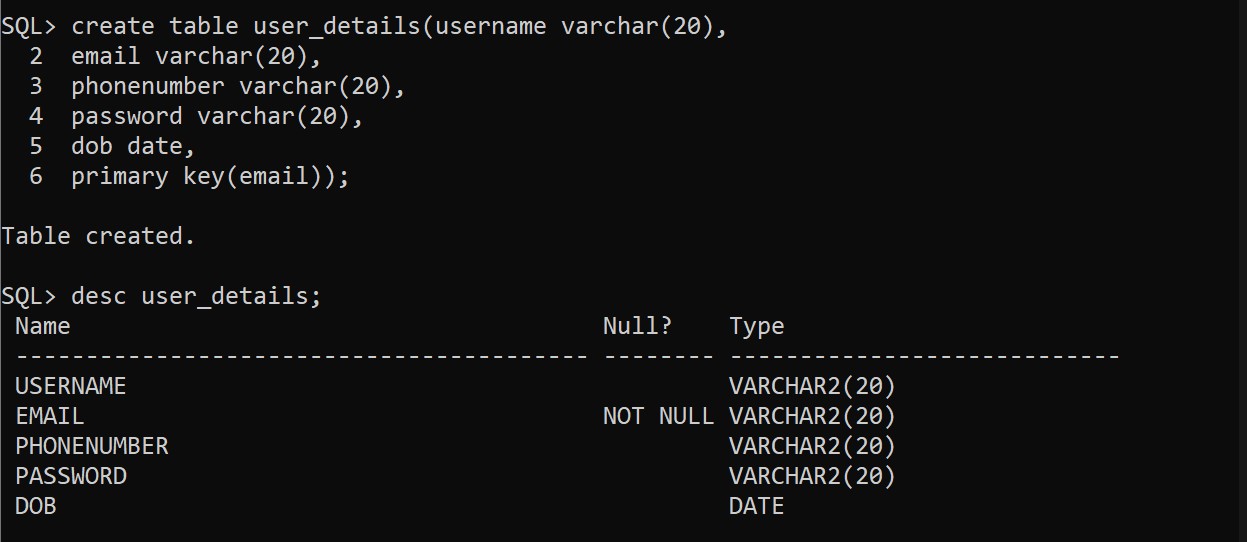
2 email varchar(20),

3 phonenumber varchar(20),

4 password varchar(20),

5 dob date,

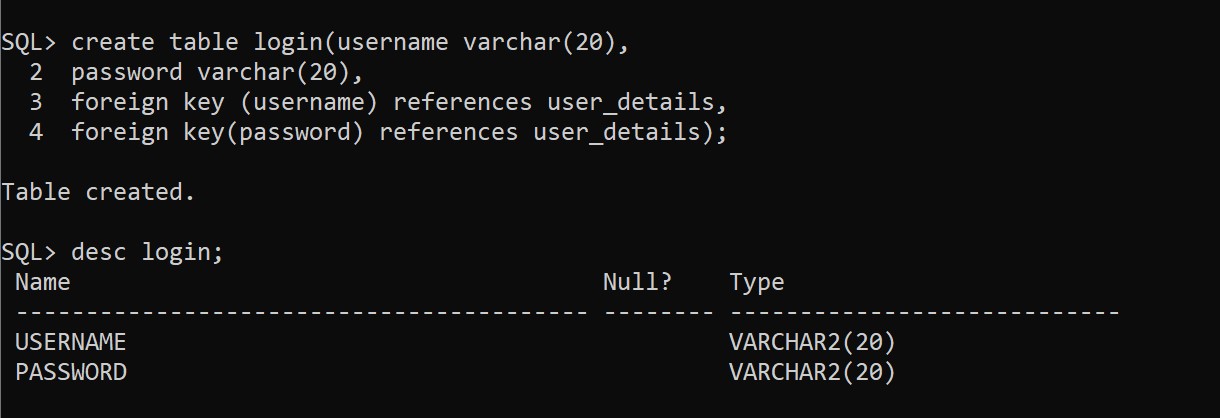
6 primary key(email));



2. Creating Login table:

**QUERY**: create table login\_details(username varchar(20),

2 password varchar(20));



3.Creating Inbox table:

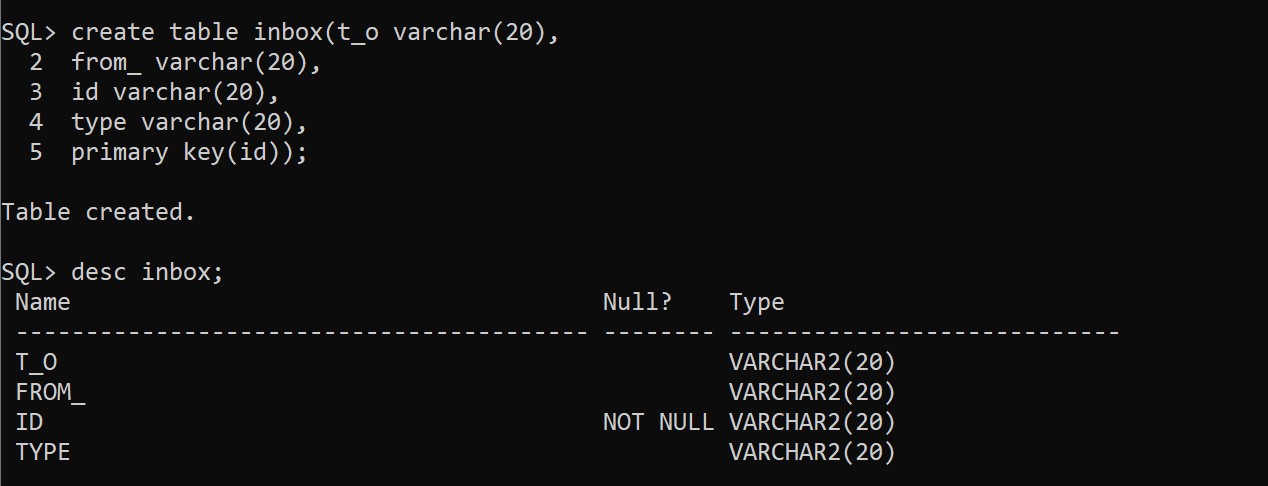
**QUERY:** create table inbox(t\_o varchar(20),

2 from\_ varchar(20),

3 id varchar(20),

4 type varchar(20),

5 primary key(id));



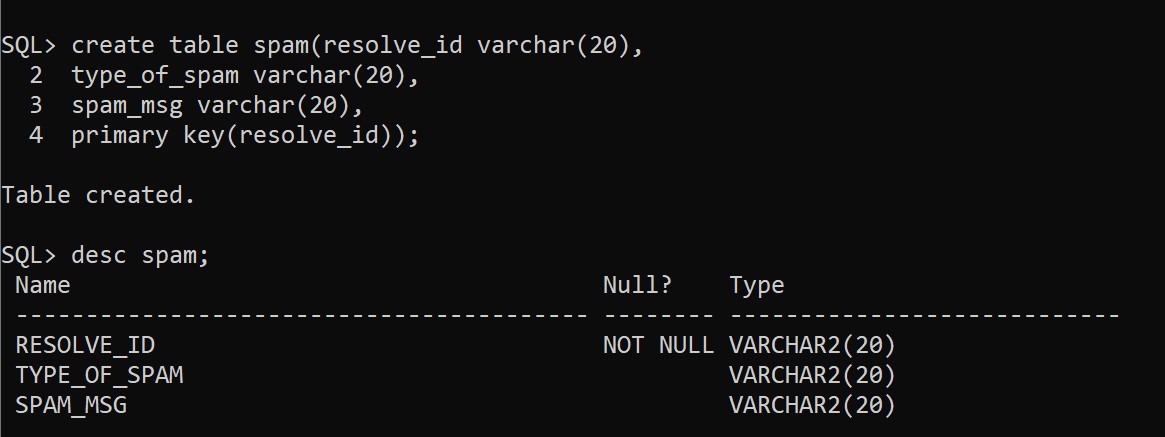
4.Creating Spam table:

**QUERY**: create table spam(resolve\_id varchar(20),

2 type\_of\_spam varchar(20),

3 spam\_msg varchar(20),

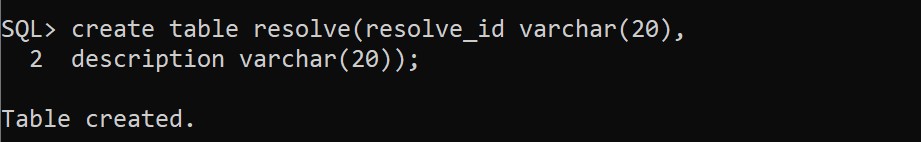
4 primary key(resolve\_id));

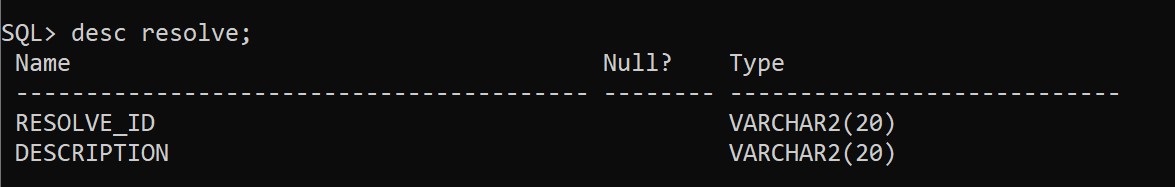


5.Creating Resolve table:

**QUERY :** create table resolve(resolve\_id varchar(20),

2 description varchar(20));

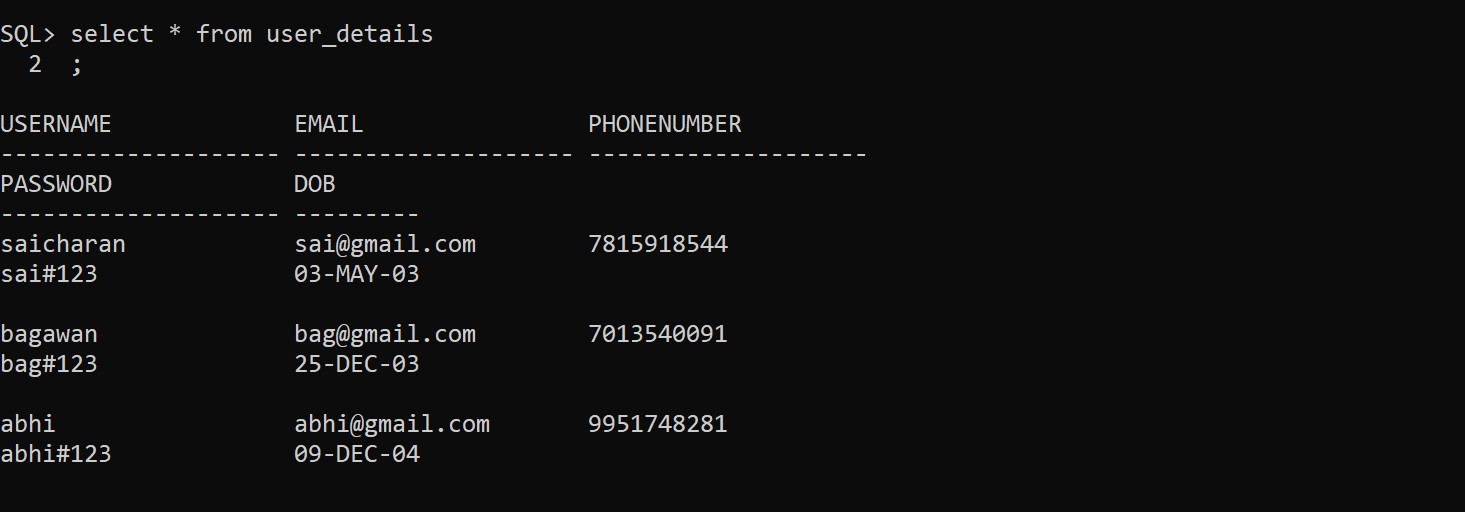




**DML COMMANDS:**

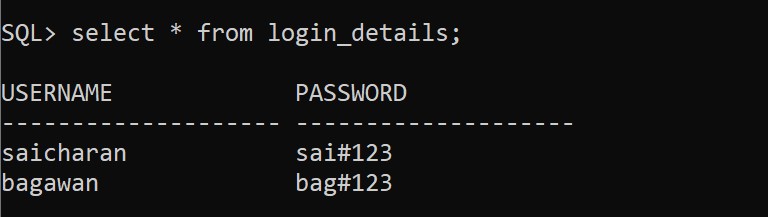
1.Insert values into Users:

**QUERY:** insert into user\_details values('&username','&email','&phonenumber','&password','&dob')



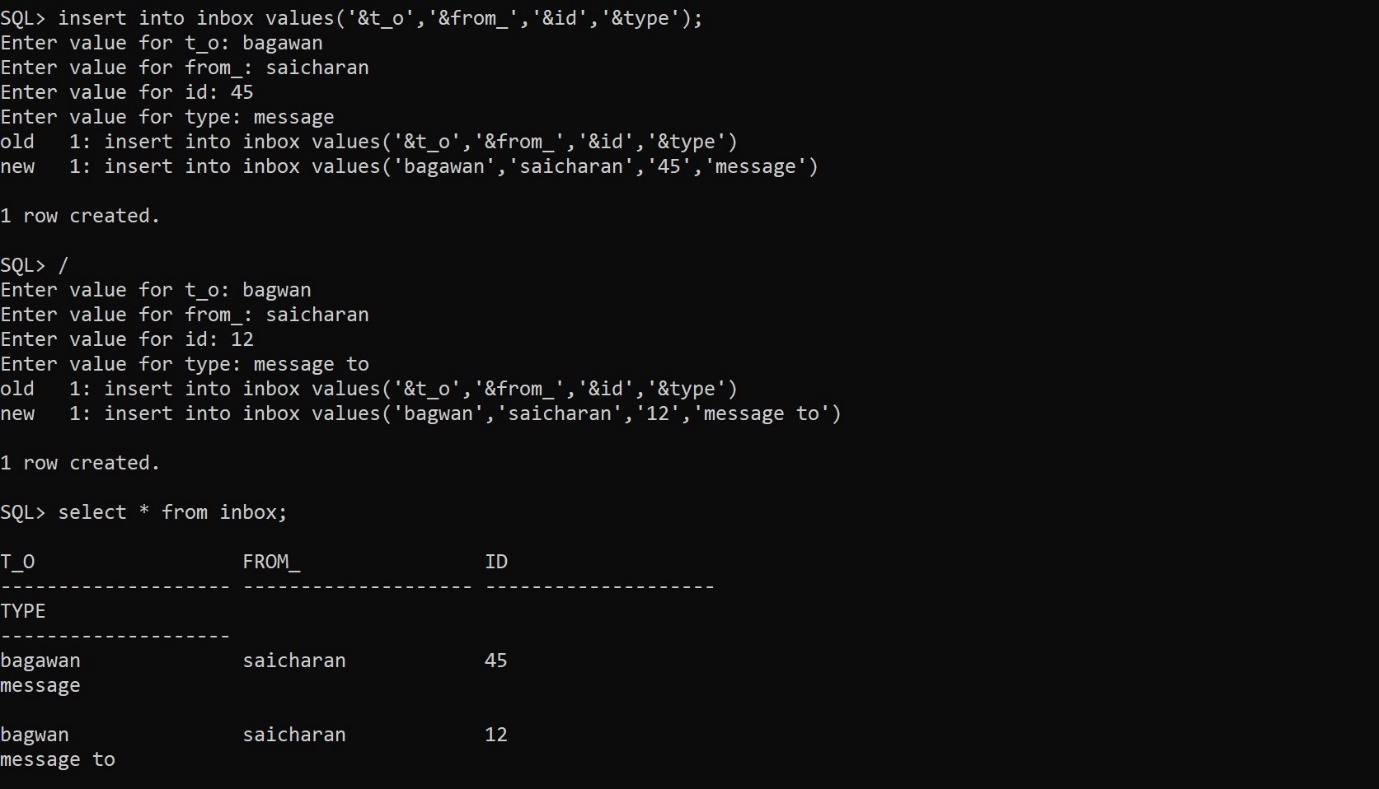
2.Insert values into Login:

**QUERY:** insert into values('&username','&password');



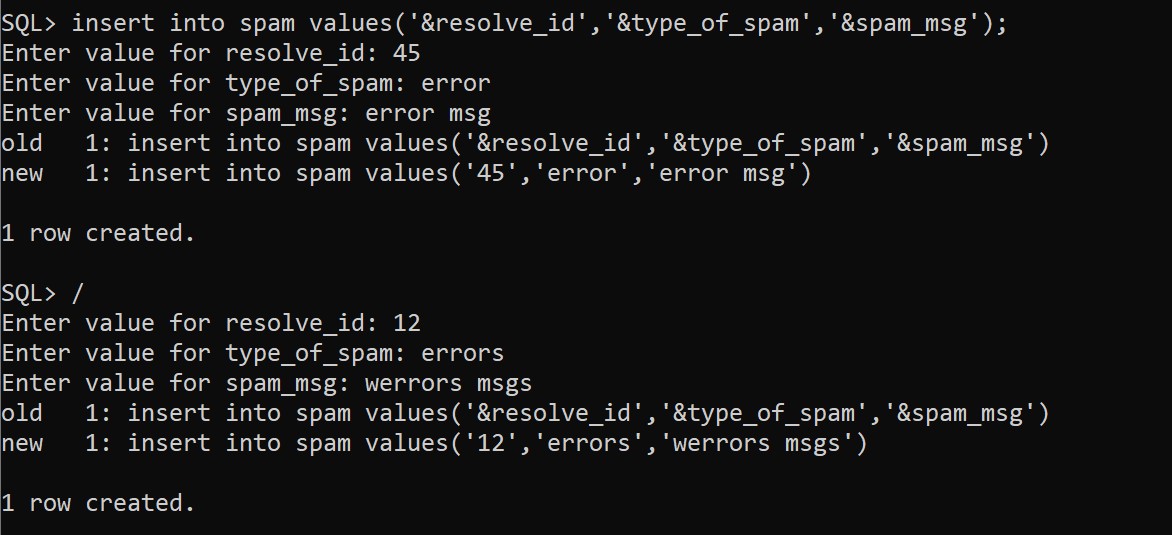
3.Insert values into Inbox:

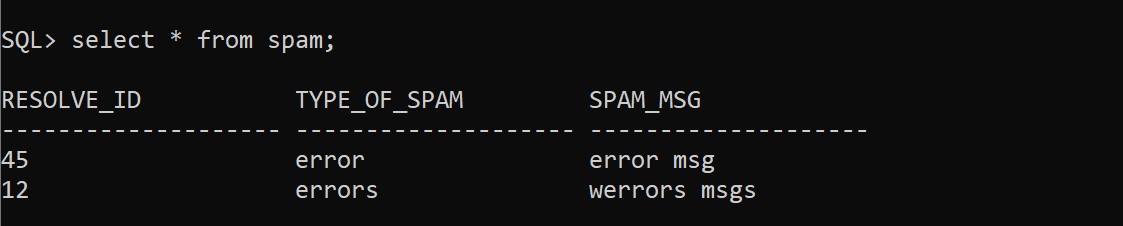
**QUERY**: insert into inbox values('&t\_o','&from\_','&id','&type');



4.Insert values into Spam:

**QUERY:** insert into Keyword values(&keyword;&input\_id,'&keyword\_text');





5.Insert values into Resolve:

**QUERY:** insert into resolve values('&resolve\_id','&description');

