

Dbms Assignment-I

Title:Malwares and its counterfeit database

Malwares and its counterfeit database

Roll no:1602-18-737-106

Name:sravya

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Abstract

This project is on “malwares and its counterfeit database”.Malware(malicioussoftware)is any software intentionally designed to cause damage to a computer,server, client,or computer network. A wide variety of types of malware exist, including computer,viruses, worms, Trojan horses, ransomware, spyware, adware,and scareware.The malware is one of the major concerns in computer and cyber security. The availability of various malware toolkits and internet popularity that has led to the increase in number of malware attacks day to day. Comparing with existing framework of antivirus scanners they currently used signature based a malware detection technique which is widely. In this we get to know how to detect the malware and how to protect it using tools .Also different types of malwares and there detailed view is seen here

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REQUIREMENT ANALYSIS

List of tables:

- Malwares
- Attacks
- Targeted users
- Prevention measures
- Action

List of attributes with their domain types:

Malwares:

Malware licence key : mlk varchar2(30)

Malware types :mtypes varchar2(20)

Malware created :mcreated varchar2(20)

Malware updated :mupdated varchar2(20)

Targeted user:

Targeted user id:tid number(20)

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Targated user name :tname varchar2(20)

Targated by: targatedby varchar2(20)

Attack:

Malware license key :mlk varchar2(30)

Targated user name: tid number(20)

preventive_measures

Protected by: protected varchar2(30)

Detected by:detected varchar2(30)

Action:

Malware license key: mlk varchar2(30)

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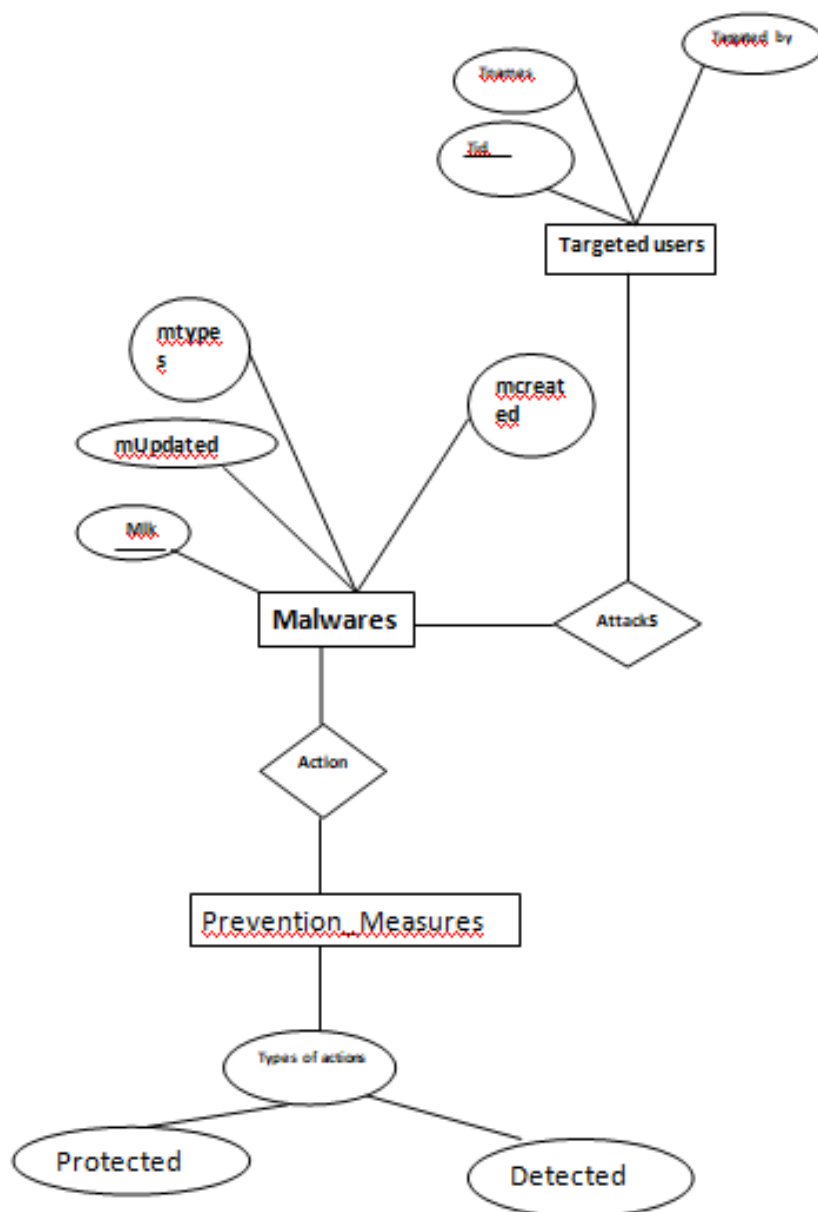
ER DIAGRAM

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Mapping Cardinalities and Participation Constraints:

Malware can attack many computer users and servers .so one to many mapping cardinality between malware and targated users..

A targated users can be targated by many threat actors and many threat actors can targete many users so,many to many mapping cardinalities between targated users and threat actors

Malware can be detected by many different software applications so many to one cardinality between detected applications and malware.

Malware can be protected by many preservative measures so it is one to many cardinality between malware and preservative measures.

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DDL COMMANDS:

```
SQL> create table malwares(  
    mlk varchar2(30),primarykey,mtypes  
    varchar2(20),mcreated varchar2(20),mupdated  
    varchar2(20);
```

Table created.

```
SQL> create table targated_user(  
    tid number(20) primary key, tname varchar2(20),  
    targatedby varchar2(20));
```

Table created.

```
SQL> create table attack(  
    mlk varchar2(30), tid number(20),foreign key(mlk)  
    references malwares,foreign key(tid) references  
    targated_user,primary key(mlk,tid));
```

Table created.

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```
SQL> create table preventive_measures(  
protected varchar2(30),detected varchar2(30));
```

Table created.

```
SQL> create table action(  
    mlk    varchar2(30),foreign    key(mlk)    references  
malwares, primary key(mlk));
```

Table created.

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DDL AND DML COMMANDS

```
Run SQL Command Line

SQL> create table malwares(
  2  mlk varchar2(30) primary key,
  3  mtypes varchar2(20),
  4  mcreated varchar2(20),
  5  mupdated varchar2(20));

Table created.

SQL> INSERT INTO malwares VALUES ('&mlk','&mtypes','&mcreated','&mupdated');
Enter value for mlk: 2251-v4g7-12h38
Enter value for mtypes: virus
Enter value for mcreated: 01-jan-1970
Enter value for mupdated: 01-june-1975
old 1: INSERT INTO malwares VALUES ('&mlk','&mtypes','&mcreated','&mupdated')
new 1: INSERT INTO malwares VALUES ('2251-v4g7-12h38','virus','01-jan-1970','01-june-1975')

1 row created.

SQL> INSERT INTO malwares VALUES ('&mlk','&mtypes','&mcreated','&mupdated');
Enter value for mlk: 5j88-g561-g8887
Enter value for mtypes: worms
Enter value for mcreated: 12-06-1985
Enter value for mupdated: 15-02-1987
old 1: INSERT INTO malwares VALUES ('&mlk','&mtypes','&mcreated','&mupdated')
new 1: INSERT INTO malwares VALUES ('5j88-g561-g8887','worms','12-06-1985','15-02-1987')

1 row created.

SQL> DELETE FROM boats malwares mtypes='worms';
DELETE FROM boats malwares mtypes='worms'
*
ERROR at line 1:
ORA-00933: SQL command not properly ended

SQL> DELETE FROM malwares mtypes='worms';
DELETE FROM malwares mtypes='worms'
*
ERROR at line 1:
ORA-00933: SQL command not properly ended

SQL> DELETE FROM malwares where mtypes='worms';
```

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```
Run SQL Command Line

1 row deleted.

SQL> INSERT INTO malwares VALUES ('&mlk','&mtypes','&mcreated','&mupdated');
Enter value for mlk: 11o1-55h5-1j562
Enter value for mtypes: spyware
Enter value for mcreated: 15-dec-1975
Enter value for mupdated: 12-june-1999
old 1: INSERT INTO malwares VALUES ('&mlk','&mtypes','&mcreated','&mupdated')
new 1: INSERT INTO malwares VALUES ('11o1-55h5-1j562','spyware','15-dec-1975','12-june-1999')

1 row created.

SQL> INSERT INTO malwares VALUES ('&mlk','&mtypes','&mcreated','&mupdated');
Enter value for mlk: 44d4-44d4-d15d5
Enter value for mtypes: ransomware
Enter value for mcreated: 25-may-1955
Enter value for mupdated: 10-may-2000
old 1: INSERT INTO malwares VALUES ('&mlk','&mtypes','&mcreated','&mupdated')
new 1: INSERT INTO malwares VALUES ('44d4-44d4-d15d5','ransomware','25-may-1955','10-may-2000')

1 row created.

SQL> select * from malwares;
```

MLK	MTYPES	MUPDATED
2251-v4g7-12h38	virus	01-jan-1970
01-june-1975		
5j88-g561-g8887	worms	15-feb-1987
12-june-1989		
5y11-44g1-45g41	trojan horses	15-jan-1980
19-june-1985		

```
MLK
```

MLK	MTYPES	MUPDATED
spyware		

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```
Run SQL Command Line

SQL> create table targated_user(
  2  tid number(20) primary key,
  3  tname varchar2(20),
  4  targatedby varchar2(20));

Table created.

SQL> INSERT INTO targated_user VALUES (&tid, '&tname','&targatedby');
Enter value for tid: 1602
Enter value for tname: ruby
Enter value for targatedby: james
old  1: INSERT INTO targated_user VALUES (&tid, '&tname','&targatedby')
new  1: INSERT INTO targated_user VALUES (1602, `ruby`,`james`)
ERROR:
ORA-01756: quoted string not properly terminated

SQL> INSERT INTO targated_user VALUES (&tid,'&tname','&targatedby');
Enter value for tid: 1602
Enter value for tname: ruby
Enter value for targatedby: james
old  1: INSERT INTO targated_user VALUES (&tid,'&tname','&targatedby')
new  1: INSERT INTO targated_user VALUES (1602,'ruby','james')

1 row created.

SQL> INSERT INTO targated_user VALUES (&tid,'&tname','&targatedby');
Enter value for tid: 1604
Enter value for tname: art
Enter value for targatedby: adam
old  1: INSERT INTO targated_user VALUES (&tid,'&tname','&targatedby')
new  1: INSERT INTO targated_user VALUES (1604,'art','adam')

1 row created.

SQL> INSERT INTO targated_user VALUES (&tid,'&tname','&targatedby');
Enter value for tid: rusty
Enter value for tname: david
Enter value for targatedby: david
old  1: INSERT INTO targated_user VALUES (&tid,'&tname','&targatedby')
new  1: INSERT INTO targated_user VALUES (rusty,'david','david')
INSERT INTO targated_user VALUES (rusty,'david','david')
*
```

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```
Run SQL Command Line

SQL> INSERT INTO targated_user VALUES (&tid,&tname,&targatedby);
Enter value for tid: 1606
Enter value for tname: rusty
Enter value for targatedby: david
old 1: INSERT INTO targated_user VALUES (&tid,&tname,&targatedby')
new 1: INSERT INTO targated_user VALUES (1606,'rusty','david')

1 row created.

SQL> INSERT INTO targated_user VALUES (&tid,&tname,&targatedby);
Enter value for tid: 1609
Enter value for tname: art
Enter value for targatedby: james
old 1: INSERT INTO targated_user VALUES (&tid,&tname,&targatedby')
new 1: INSERT INTO targated_user VALUES (1609,'art','james')

1 row created.

SQL> INSERT INTO targated_user VALUES (&tid,&tname,&targatedby);
Enter value for tid: 1612
Enter value for tname: david
Enter value for targatedby: bob
old 1: INSERT INTO targated_user VALUES (&tid,&tname,&targatedby')
new 1: INSERT INTO targated_user VALUES (1612,'david','bob')

1 row created.

SQL> select * from targated_user;

      TID TNAME      TARGATEDBY
-----
      1602 ruby      james
      1604 art       adam
      1606 rusty     david
      1609 art       james
      1612 david     bob

SQL> commit;

Commit complete.

SQL>
```

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```
Run SQL Command Line
SQL> create table attack(
  2 mlk varchar2(30),
  3 tid number(20),
  4 foreign key(mlk) references malwares,
  5 foreign key(tid) references targated_user,
  6 primary key(mlk,tid));

Table created.

SQL> desc attack;
Name                                Null?    Type
-----
MLK                                NOT NULL VARCHAR2(30)
TID                                NOT NULL NUMBER(20)

SQL> commit;

Commit complete.

SQL> select * from malwares;

MLK                                MYPES    MCREATED
-----
MUPDATED
-----
2251-v4g7-12h38                    virus     01-jan-1970
01-june-1975
5j88-g561-g8887                    worms     15-feb-1987
12-june-1989
5y11-44g1-45g41                    trojan horses 15-jan-1980
19-june-1985

MLK                                MYPES    MCREATED
-----
MUPDATED
-----
11o1-55h5-1j562                    spyware   15-dec-1975
12-june-1999
```

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```
Run SQL Command Line
-----
11o1-55h5-1j562      spyware      15-dec-1975
12-june-1999

44d4-44d4-d15d5      ransomware   25-may-1955
10-may-2000

SQL> select * from targated_user;

      TID  TNAME      TARGATEDBY
-----
      1602  ruby      james
      1604  art       adam
      1606  rusty     david
      1609  art       james
      1612  david     bob

SQL> INSERT INTO attack VALUES ('&mlk','&tid');
Enter value for mlk: 2251-v4g7-12h38
Enter value for tid: 1602
old  1: INSERT INTO attack VALUES ('&mlk','&tid')
new  1: INSERT INTO attack VALUES ('2251-v4g7-12h38','1602')

1 row created.

SQL> INSERT INTO attack VALUES ('&mlk','&tid');
Enter value for mlk: 5j88-g561-g8887
Enter value for tid: 1604
old  1: INSERT INTO attack VALUES ('&mlk','&tid')
new  1: INSERT INTO attack VALUES ('5j88-g561-g8887','1604')

1 row created.

SQL> INSERT INTO attack VALUES ('&mlk','&tid');
Enter value for mlk: 5y11-44g1-45g41
Enter value for tid: 1606
old  1: INSERT INTO attack VALUES ('&mlk','&tid')
new  1: INSERT INTO attack VALUES ('5y11-44g1-45g41','1606')

1 row created.

SQL> INSERT INTO attack VALUES ('&mlk','&tid');
Enter value for mlk: 11o1-55h5-1j562
```

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```
Run SQL Command Line
SQL> create table preventive_measures(
  2  protected varchar2(30),
  3  detected varchar2(30));

Table created.

SQL> desc preventive_measures;
Name                                Null?    Type
-----
PROTECTED                           VARCHA2(30)
DETECTED                            VARCHA2(30)

SQL> INSERT INTO preventive_measures VALUES ('&protected','&detected');
Enter value for protected: malwarebytes
Enter value for detected: signature based
old  1: INSERT INTO preventive_measures VALUES ('&protected','&detected')
new  1: INSERT INTO preventive_measures VALUES ('malwarebytes','signature based')

1 row created.

SQL> INSERT INTO preventive_measures VALUES ('&protected','&detected');
Enter value for protected: norton
Enter value for detected: ehaviour based
old  1: INSERT INTO preventive_measures VALUES ('&protected','&detected')
new  1: INSERT INTO preventive_measures VALUES ('norton','ehaviour based')

1 row created.

SQL> DELETE FROM preventive_measures WHERE protected='norton';

1 row deleted.

SQL> INSERT INTO preventive_measures VALUES ('&protected','&detected');
Enter value for protected: norton
Enter value for detected: behaviour based
old  1: INSERT INTO preventive_measures VALUES ('&protected','&detected')
new  1: INSERT INTO preventive_measures VALUES ('norton','behaviour based')

1 row created.

SQL> INSERT INTO preventive_measures VALUES ('&protected','&detected');
Enter value for protected: webroot
Enter value for detected: specifiction based
old  1: INSERT INTO preventive_measures VALUES ('&protected','&detected')
```

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```
Run SQL Command Line

SQL> create table action(
  2  mlk varchar2(30),
  3  foreign key(mlk) references malwares,
  4  primary key(mlk));

Table created.

SQL> desc action;
Name                               Null?   Type
-----
MLK                                NOT NULL VARCHAR2(30)

SQL> INSERT INTO action VALUES ('&mlk');
Enter value for mlk: 1
old 1: INSERT INTO action VALUES ('&mlk')
new 1: INSERT INTO action VALUES ('1')
INSERT INTO action VALUES ('1')
*
ERROR at line 1:
ORA-02291: integrity constraint (SRAVYA.SYS_C007028) violated - parent key not found

SQL> select * from action;

no rows selected

SQL> select * from malwares;

MLK                                MTYPES      MCREATED
-----
MUPDATED
-----
2251-v4g7-12h38                    virus        01-jan-1970
01-june-1975
5j88-g561-g8887                    worms        15-feb-1987
12-june-1989
5y11-44g1-45g41                    trojan horses 15-jan-1980
19-june-1985
```

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```
Run SQL Command Line
SQL> desc malwares;
Name                               Null?   Type
-----
MLK                                NOT NULL VARCHAR2(30)
MTYPES                             VARCHAR2(20)
MCREATED                           VARCHAR2(20)
MUPDATED                           VARCHAR2(20)

SQL> select * from malwares;

MLK                                MTYPES    MCREATED
-----
MUPDATED
-----
2251-v4g7-12h38                  virus      01-jan-1970
01-june-1975

5j88-g561-g8887                  worms      15-feb-1987
12-june-1989

5y11-44g1-45g41                  trojan horses 15-jan-1980
19-june-1985

MLK                                MTYPES    MCREATED
-----
MUPDATED
-----
11o1-55h5-1j562                  spyware    15-dec-1975
12-june-1999

44d4-44d4-d15d5                  ransomware 25-may-1955
10-may-2000

SQL> desc targated_users;
ERROR:
ORA-04043: object targated_users does not exist

SQL> desc targated_user;
Name                               Null?   Type
-----
```

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```
Run SQL Command Line

SQL> desc targated_user;
Name                                         Null?    Type
-----
TID                                         NOT NULL NUMBER(20)
TNAME                                       VARCHA2(20)
TARGATEDBY                                 VARCHA2(20)

SQL> select * from targated_user;

  TID  TNAME      TARGATEDBY
-----
  1602  ruby         james
  1604  art          adam
  1606  rusty        david
  1609  art          james
  1612  david        bob

SQL> desc attack;
Name                                         Null?    Type
-----
MLK                                         NOT NULL VARCHA2(30)
TID                                         NOT NULL NUMBER(20)

SQL> select * attack;
select * attack
      *
ERROR at line 1:
ORA-00923: FROM keyword not found where expected

SQL> select * from attack;

MLK                                         TID
-----
2251-v4g7-12h38                           1602
5j88-g561-g8887                           1604
5y11-44g1-45g41                           1606
11o1-55h5-1j562                           1609
44d4-44d4-d15d5                           1612

SQL> desc preventive_measures;
Name                                         Null?    Type
-----
```

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```
Run SQL Command Line
SQL> select * from attack;

MLK                                TID
-----
2251-v4g7-12h38                   1602
5j88-g561-g8887                   1604
5y11-44g1-45g41                   1606
11o1-55h5-1j562                   1609
44d4-44d4-d15d5                   1612

SQL> desc preventive_measures;
Name                               Null?   Type
-----
PROTECTED                         VARCHAR2(30)
DETECTED                         VARCHAR2(30)

SQL> select * from preventive_measures;

PROTECTED      DETECTED
-----
malwarebytes   signature based
norton          behaviour based
webroot        specification based
mcafee          static
avira           dynamic

SQL> desc action;
Name                               Null?   Type
-----
MLK                                NOT NULL VARCHAR2(30)

SQL> select * from action;

MLK
-----
2251-v4g7-12h38
5j88-g561-g8887
5y11-44g1-45g41
11o1-55h5-1j562
44d4-44d4-d15d5

SQL> commit;

Commit complete.
```

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