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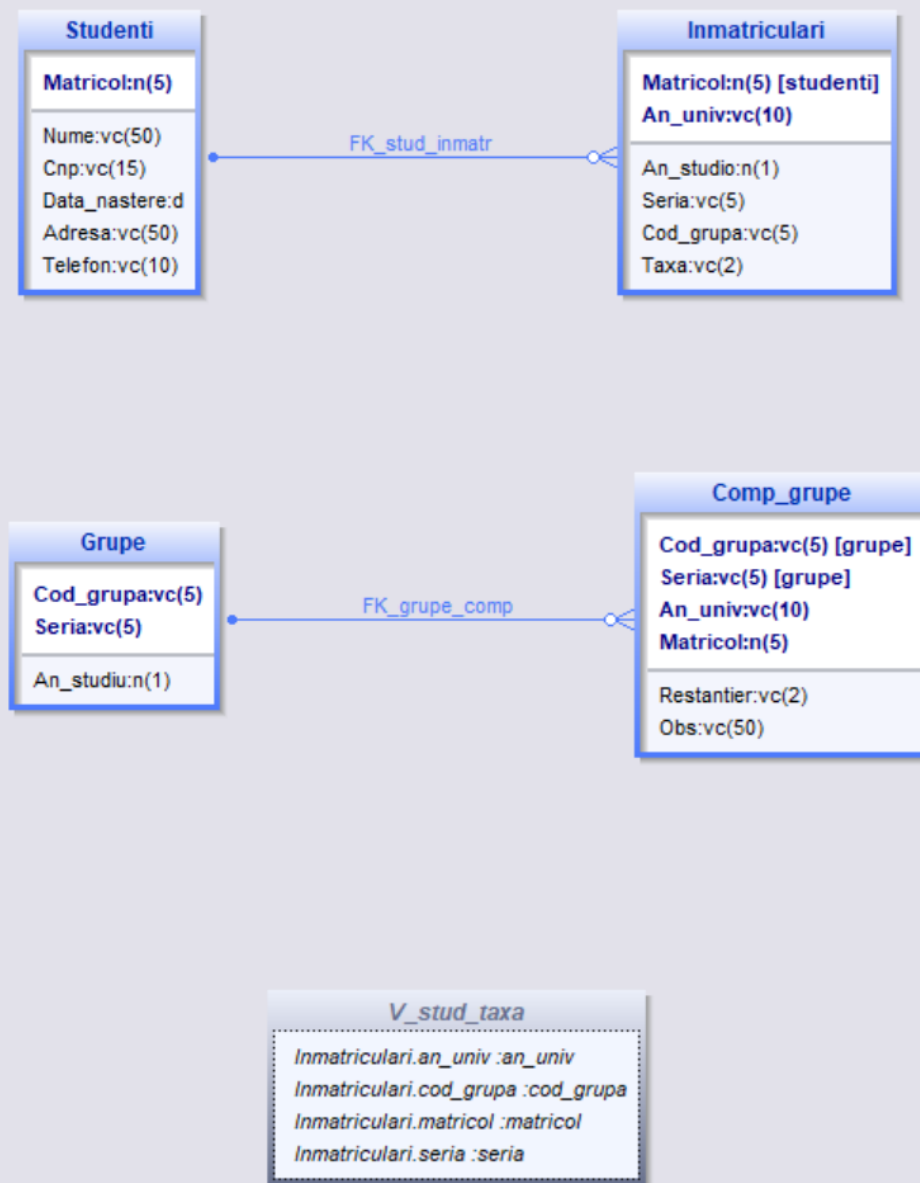
## Lab 01

### Ownership

- Student: Marius Vintila
  - Group: 341C5
- 

### Course

#### XCASE Diagram



## SQL Script

```

CREATE TABLE Studenti
(
    Matricol NUMBER(5) NOT NULL ,
    Nume VARCHAR2(50) NULL ,
    Cnp VARCHAR2(15) NULL ,
    Data_nastere DATE NULL ,
    Adresa VARCHAR2(50) NULL ,
    Telefon VARCHAR2(10) NULL ,

```

```

CONSTRAINT PK_Studenti PRIMARY KEY (Matricol) NOT DEFERRABLE Initially IMMEDIATE
USING INDEX
PCTFREE 10
INITTRANS 2
MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K
    MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0
)
)

PCTFREE 10
PCTUSED 40
INITTRANS 1
MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K
    MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0
)
/

CREATE TABLE Comp_grupe
(
    Cod_grupa VARCHAR2(5) NOT NULL ,
    Seria VARCHAR2(5) NOT NULL ,
    An_univ VARCHAR2(10) NOT NULL ,
    Matricol NUMBER(5) NOT NULL ,
    Restantier VARCHAR2(2) NULL ,
    Obs VARCHAR2(50) NULL ,
    CONSTRAINT PK_Comp_grupe PRIMARY KEY (Cod_grupa,Seria,An_univ,Matricol) NOT
DEFERRABLE Initially IMMEDIATE
USING INDEX
PCTFREE 10
INITTRANS 2
MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K
    MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0
)
)

PCTFREE 10

```

```

PCTUSED 40
INITTRANS 1
MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K
    MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0
)
/

CREATE TABLE Inmatriculari
(
    Matricol NUMBER(5) NOT NULL ,
    An_univ VARCHAR2(10) NOT NULL ,
    An_studio NUMBER(1) NULL ,
    Seria VARCHAR2(5) NULL ,
    Cod_grupa VARCHAR2(5) NULL ,
    Taxa VARCHAR2(2) NULL ,
    CONSTRAINT PK_Inmatriculari PRIMARY KEY (Matricol,An_univ) NOT DEFERRABLE
Initially IMMEDIATE
    USING INDEX
    PCTFREE 10
    INITTRANS 2
    MAXTRANS 255
    STORAGE
    (
        INITIAL 64K
        NEXT 0K
        MINEXTENTS 1
        MAXEXTENTS 2147483645
        PCTINCREASE 0
    )
)
PCTFREE 10
PCTUSED 40
INITTRANS 1
MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K
    MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0
)
/

CREATE TABLE Grupe
(

```

```

Cod_grupa VARCHAR2(5) NOT NULL ,
Seria VARCHAR2(5) NOT NULL ,
An_studiu NUMBER(1) NULL ,
CONSTRAINT PK_Grupe PRIMARY KEY (Cod_grupa,Seria) NOT DEFERRABLE Initially
IMMEDIATE

USING INDEX
PCTFREE 10
INITRANS 2
MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K
    MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0
)
)

PCTFREE 10
PCTUSED 40
INITRANS 1
MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K
    MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0
)
/

ALTER TABLE Comp_grupe ADD
(
    CONSTRAINT FK_grupe_comp FOREIGN KEY
    ( Cod_grupa , Seria )
    REFERENCES Grupe
    ( Cod_grupa , Seria )
    NOT DEFERRABLE Initially IMMEDIATE
)
/

ALTER TABLE Inmatriculari ADD
(
    CONSTRAINT FK_stud_inmatr FOREIGN KEY
    ( Matricol )
    REFERENCES Studenti
    ( Matricol )
    NOT DEFERRABLE Initially IMMEDIATE
)
/

```

```

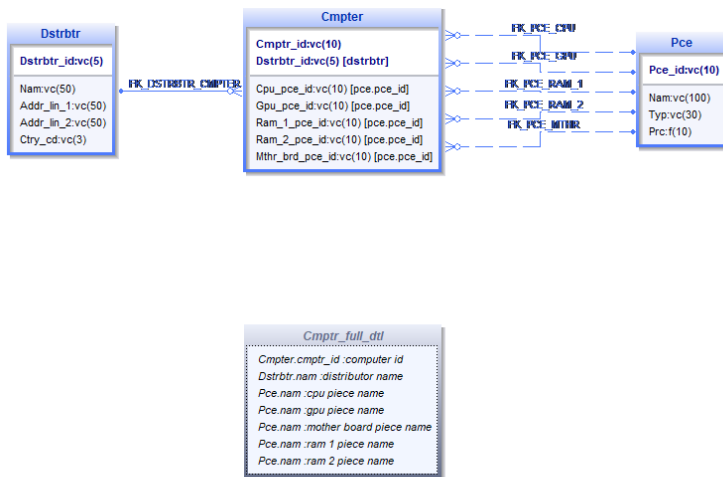
CREATE OR REPLACE FORCE VIEW V_stud_taxa
AS SELECT ALL  Inmatriculari.An_univ ,  Inmatriculari.Cod_grupa ,
Inmatriculari.Matricol ,
           Inmatriculari.Seria
FROM  Inmatriculari Inmatriculari
WHERE Inmatriculari.An_univ='2020/2021' and Inmatriculari.Taxa='DA'
/

```

## Lab

I chose to use a standard that removes vowels from table and field names; Personal preference. I would've also added some lookup tables for certain values but the restriction was of only 3 tables, so I'll have to populate the tables with repeated values

## XCASE Diagram



## Legend

- DSTRBTR - Distributor
- NAM - Name
- ADDR\_LIN - Address Line
- CTRY\_CD - Country Code
- CMPTR - Computer
- PCE - Piece
- MTHR\_BRD - Mother Board
- TYP - Type
- PRC - Price

## SQL Script

```
CREATE TABLE DSTRBTR
(
    DSTRBTR_ID VARCHAR2(5) NOT NULL ,
    NAM VARCHAR2(50) NULL ,
    ADDR_LIN_1 VARCHAR2(50) NULL ,
    ADDR_LIN_2 VARCHAR2(50) NULL ,
    CTRY_CD VARCHAR2(3) NULL ,
    CONSTRAINT PK_DSTRBTR PRIMARY KEY (DSTRBTR_ID) NOT DEFERRABLE Initially
IMMEDIATE
    USING INDEX
    PCTFREE 10
    INITTRANS 2
    MAXTRANS 255
    STORAGE
    (
        INITIAL 64K
        NEXT 0K
        MINEXTENTS 1
        MAXEXTENTS 2147483645
        PCTINCREASE 0
    )
)
PCTFREE 10
PCTUSED 40
INITTRANS 1
MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K
    MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0
)
/
```

```
CREATE TABLE CMPTR
(
    CMPTR_ID VARCHAR2(10) NOT NULL ,
    DSTRBTR_ID VARCHAR2(5) NOT NULL ,
    CPU_PCE_ID VARCHAR2(10) NULL ,
    GPU_PCE_ID VARCHAR2(10) NULL ,
    RAM_1_PCE_ID VARCHAR2(10) NULL ,
    RAM_2_PCE_ID VARCHAR2(10) NULL ,
    MTHR_BRD_PCE_ID VARCHAR2(10) NULL ,
    CONSTRAINT PK_CMPTR PRIMARY KEY (CMPTR_ID,DSTRBTR_ID) NOT DEFERRABLE
Initially IMMEDIATE
    USING INDEX
    PCTFREE 10
    INITTRANS 2
```

```

MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K
    MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0
)
)
PCTFREE 10
PCTUSED 40
INITTRANS 1
MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K
    MINEXTENTS 1
    MAXEXTENTS 2147483645
    PCTINCREASE 0
)
/

```

```

CREATE TABLE PCE
(
    PCE_ID VARCHAR2(10) NOT NULL ,
    NAM VARCHAR2(100) NULL ,
    TYP VARCHAR2(30) NULL ,
    PRC FLOAT(10) NULL ,
    CONSTRAINT PK_PCE PRIMARY KEY (PCE_ID) NOT DEFERRABLE Initially IMMEDIATE
    USING INDEX
    PCTFREE 10
    INITTRANS 2
    MAXTRANS 255
    STORAGE
    (
        INITIAL 64K
        NEXT 0K
        MINEXTENTS 1
        MAXEXTENTS 2147483645
        PCTINCREASE 0
    )
)
PCTFREE 10
PCTUSED 40
INITTRANS 1
MAXTRANS 255
STORAGE
(
    INITIAL 64K
    NEXT 0K

```



```
MINEXTENTS 1
MAXEXTENTS 2147483645
PCTINCREASE 0
)
/
```

```
ALTER TABLE CMPTR ADD
(
  CONSTRAINT FK_DSTRBTR_CMPTR FOREIGN KEY
    ( DSTRBTR_ID )
  REFERENCES DSTRBTR
    ( DSTRBTR_ID )
  NOT DEFERRABLE Initially IMMEDIATE
)
/
```

```
ALTER TABLE CMPTR ADD
(
  CONSTRAINT FK_PCE_CPU FOREIGN KEY
    ( CPU_PCE_ID )
  REFERENCES PCE
    ( PCE_ID )
  NOT DEFERRABLE Initially IMMEDIATE
)
/
```

```
ALTER TABLE CMPTR ADD
(
  CONSTRAINT FK_PCE_GPU FOREIGN KEY
    ( GPU_PCE_ID )
  REFERENCES PCE
    ( PCE_ID )
  NOT DEFERRABLE Initially IMMEDIATE
)
/
```

```
ALTER TABLE CMPTR ADD
(
  CONSTRAINT FK_PCE_RAM_1 FOREIGN KEY
    ( RAM_1_PCE_ID )
  REFERENCES PCE
    ( PCE_ID )
  NOT DEFERRABLE Initially IMMEDIATE
)
/
```

```
ALTER TABLE CMPTR ADD
(
  CONSTRAINT FK_PCE_RAM_2 FOREIGN KEY
    ( RAM_2_PCE_ID )
  REFERENCES PCE

```

```

    ( PCE_ID )
    NOT DEFERRABLE Initially IMMEDIATE
)
/

```

```

ALTER TABLE CMPTR ADD
(
    CONSTRAINT FK_PCE_MTHR FOREIGN KEY
    ( MTHR_BRD_PCE_ID )
    REFERENCES PCE
    ( PCE_ID )
    NOT DEFERRABLE Initially IMMEDIATE
)
/

```

```

CREATE OR REPLACE FORCE VIEW CMPTR_FULL_DTL
AS SELECT ALL  CMPTR.CMPTR_ID AS "Computer ID" ,  DSTRBTR.NAM AS "Distributor
Name" ,
    PCE.NAM AS "CPU Piece Name" ,  PCE_0.NAM AS "GPU Piece Name" ,
    PCE_1.NAM AS "Ram 1 Piece Name" ,  PCE_2.NAM AS "Ram 2 Piece Name" ,
    PCE_3.NAM AS "Mother Board Piece Name"
FROM  CMPTR CMPTR ,  DSTRBTR DSTRBTR ,  PCE PCE ,  PCE PCE_0 ,
    PCE PCE_1 ,  PCE PCE_2 ,  PCE PCE_3
WHERE CMPTR.DSTRBTR_ID = DSTRBTR.DSTRBTR_ID
AND  CMPTR.CPU_PCE_ID = PCE.PCE_ID
AND  CMPTR.GPU_PCE_ID = PCE_0.PCE_ID
AND  CMPTR.RAM_1_PCE_ID = PCE_1.PCE_ID
AND  CMPTR.RAM_2_PCE_ID = PCE_2.PCE_ID
AND  CMPTR.MTHR_BRD_PCE_ID = PCE_3.PCE_ID
ORDER BY  "Distributor Name" , "Computer ID"
/

```

## Data insert and conraint testing

### Distributor

#### Insert Commands

```

insert into DSTRBTR (DSTRBTR_ID, NAM, ADDR_LIN_1, ADDR_LIN_2, CTRY_CD) VALUES
('00001', 'Asus', 'Beitou District, Taipei, Taiwan', NULL, 'TW');
insert into DSTRBTR (DSTRBTR_ID, NAM, ADDR_LIN_1, ADDR_LIN_2, CTRY_CD) VALUES
('00002', 'Kingston', 'Fountain Valley, California, Statele Unite', NULL, 'US');
insert into DSTRBTR (DSTRBTR_ID, NAM, ADDR_LIN_1, ADDR_LIN_2, CTRY_CD) VALUES
('00003', 'Intel', 'Santa Clara, California, Statele Unite', NULL, 'US');
insert into DSTRBTR (DSTRBTR_ID, NAM, ADDR_LIN_1, ADDR_LIN_2, CTRY_CD) VALUES
('00004', 'Nvidia', 'Santa Clara, California, Statele Unite', '2788 San Tomas
Expressway Santa Clara, CA 95051', 'US');
insert into DSTRBTR (DSTRBTR_ID, NAM, ADDR_LIN_1, ADDR_LIN_2, CTRY_CD) VALUES
('00004', 'AMD', 'Santa Clara, California, Statele Unite', '2788 San Tomas Expressway
Santa Clara, CA 95051', 'US');

```

#### Insert Commands Results

SQL Worksheet

```
1 insert into DSTRBTR (DSTRBTR_ID, NAM, ADDR_LIN_1, ADDR_LIN_2, CTRY_CD) VALUES
2 ('00001', 'Asus', 'Beitou District, Taipei, Taiwan', NULL, 'TW');
3 insert into DSTRBTR (DSTRBTR_ID, NAM, ADDR_LIN_1, ADDR_LIN_2, CTRY_CD) VALUES
4 ('00002', 'Kingston', 'Fountain Valley, California, Statele Unite', NULL, 'US');
5 insert into DSTRBTR (DSTRBTR_ID, NAM, ADDR_LIN_1, ADDR_LIN_2, CTRY_CD) VALUES
6 ('00003', 'Intel', 'Santa Clara, California, Statele Unite', NULL, 'US');
7 insert into DSTRBTR (DSTRBTR_ID, NAM, ADDR_LIN_1, ADDR_LIN_2, CTRY_CD) VALUES
8 ('00004', 'Nvidia', 'Santa Clara, California, Statele Unite', '2788 San Tomas Expressway Santa Clara, CA 95051', 'US');
9 insert into DSTRBTR (DSTRBTR_ID, NAM, ADDR_LIN_1, ADDR_LIN_2, CTRY_CD) VALUES
10 ('00004', 'AMD', 'Santa Clara, California, Statele Unite', '2788 San Tomas Expressway Santa Clara, CA 95051', 'US');
11
```

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

1 row(s) inserted.

ORA-00001: unique constraint (SQL\_ROCIPUNOUBTGFEQXDL0TSNY.PK\_DSTRBTR) violated ORA-06512: at "SYS.DBMS\_SQL", line 1721

Select Results

SQL Worksheet

```
1 select
2 "DSTRBTR_ID",
3 "NAM",
4 "ADDR_LIN_1",
5 "ADDR_LIN_2",
6 "CTRY_CD"
7 from "DSTRBTR";
```

| DSTRBTR_ID | NAM      | ADDR_LIN_1                                 | ADDR_LIN_2                                      | CTRY_CD |
|------------|----------|--|---|---------|
| 00001      | Asus     | Beitou District, Taipei, Taiwan            | -   | TW      |
| 00002      | Kingston | Fountain Valley, California, Statele Unite | -   | US      |
| 00003      | Intel    | Santa Clara, California, Statele Unite     | -   | US      |
| 00004      | Nvidia   | Santa Clara, California, Statele Unite     | 2788 San Tomas Expressway Santa Clara, CA 95051 | US      |

Download CSV  
4 rows selected.

Testing scenario

- Attempted to insert the same PK in another command

Piece

Insert Commands

```
INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES
('0000000001', 'HyperX Predator Black 16GB, DDR4, 3200MHz, CL16, 1.35V', 'RAM',
95.79);
INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES
('0000000002', 'HyperX Predator RGB 32GB DDR4 3200MHz CL16', 'RAM', 324.99);
INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES
('0000000003', 'ASUS Phoenix GeForce GTX 1650 OC, 4GB GDDR5, 128-bit', 'GPU', 399.99);
INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES
('0000000004', 'Intel Core i9-10900K Comet Lake, 3.70GHz, 20MB, Socket 1200', 'CPU',
```

```
500.00);
INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES
('0000000005', 'ASUS TUF GAMING B460-PLUS, Socket 1200', 'Mother Board', 330.79);
INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES
('0000000001', 'HyperX Predator Black 16GB, DDR4, 3200MHz, CL16, 1.35V', 'RAM',
95.79);
```

## Insert Commands Results

### SQL Worksheet

|    |   |  |
|----|---|--|
| 1  | INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES  |  |
| 2  | ('0000000001', 'HyperX Predator Black 16GB, DDR4, 3200MHz, CL16, 1.35V', 'RAM', 95.79);       |  |
| 3  | INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES  |  |
| 4  | ('0000000002', 'HyperX Predator RGB 32GB DDR4 3200MHz CL16', 'RAM', 324.99);                  |  |
| 5  | INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES  |  |
| 6  | ('0000000003', 'ASUS Phoenix GeForce GTX 1650 OC, 4GB GDDR5, 128-bit', 'GPU', 399.99);        |  |
| 7  | INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES  |  |
| 8  | ('0000000004', 'Intel Core i9-10900K Comet Lake, 3.70GHz, 20MB, Socket 1200', 'CPU', 500.00); |  |
| 9  | INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES  |  |
| 10 | ('0000000005', 'ASUS TUF GAMING B460-PLUS, Socket 1200', 'Mother Board', 330.79);             |  |
| 11 | INSERT INTO PCE (PCE_ID, NAM, TYP, PRC) VALUES  |  |
| 12 | ('0000000001', 'HyperX Predator Black 16GB, DDR4, 3200MHz, CL16, 1.35V', 'RAM', 95.79);       |  |

1 row(s) inserted.  
  
1 row(s) inserted.  
  
1 row(s) inserted.  
  
1 row(s) inserted.  
  
1 row(s) inserted.  
  
ORA-00001: unique constraint (SQL\_ROCIPUNOUBTGFEXQUXDL0TSNY.PK\_PCE) violated ORA-06512: at "SYS.DBMS\_SQL", line 1721

## Select Results

| PCE_ID     | NAM   | TYP          | PRC   |
|------------|---|--------------|-------|
| 0000000001 | HyperX Predator Black 16GB, DDR4, 3200MHz, CL16, 1.35V      | RAM          | 95.79 |
| 0000000002 | HyperX Predator RGB 32GB DDR4 3200MHz CL16                  | RAM          | 325   |
| 0000000003 | ASUS Phoenix GeForce GTX 1650 OC, 4GB GDDR5, 128-bit        | GPU          | 400   |
| 0000000004 | Intel Core i9-10900K Comet Lake, 3.70GHz, 20MB, Socket 1200 | CPU          | 500   |
| 0000000005 | ASUS TUF GAMING B460-PLUS, Socket 1200                      | Mother Board | 330.8 |

Download CSV

5 rows selected.

## Testing scenario

- Attempted to insert the same PK in another command

## Computer

### Insert Commands

```
INSERT INTO CMPTR (CMPTR_ID, DSTRBTR_ID, CPU_PCE_ID, GPU_PCE_ID, RAM_1_PCE_ID,
RAM_2_PCE_ID, MTHR_BRD_PCE_ID) VALUES
('0000000001', '00001', '0000000004', '0000000003', '0000000001', '0000000001',
'0000000005');

INSERT INTO CMPTR (CMPTR_ID, DSTRBTR_ID, CPU_PCE_ID, GPU_PCE_ID, RAM_1_PCE_ID,
RAM_2_PCE_ID, MTHR_BRD_PCE_ID) VALUES
('0000000001', NULL, '0000000004', '0000000003', '0000000001', '0000000001',
'0000000005');

INSERT INTO CMPTR (CMPTR_ID, DSTRBTR_ID, CPU_PCE_ID, GPU_PCE_ID, RAM_1_PCE_ID,
RAM_2_PCE_ID, MTHR_BRD_PCE_ID) VALUES
('0000000001', '00001', '0000000004', '0000000003', '0000000001', '0000000001',
'0000000006');
```

Insert Commands Results

SQL Worksheet

1

INSERT INTO CMPTR (CMPTR\_ID, DSTRBTR\_ID, CPU\_PCE\_ID, GPU\_PCE\_ID, RAM\_1\_PCE\_ID, RAM\_2\_PCE\_ID, MTHR\_BRD\_PCE\_ID) VALUES

2

( '0000000001', '00001', '0000000004', '0000000003', '0000000001', '0000000001', '0000000005');

3

INSERT INTO CMPTR (CMPTR\_ID, DSTRBTR\_ID, CPU\_PCE\_ID, GPU\_PCE\_ID, RAM\_1\_PCE\_ID, RAM\_2\_PCE\_ID, MTHR\_BRD\_PCE\_ID) VALUES

4

( '0000000001', NULL, '0000000004', '0000000003', '0000000001', '0000000001', '0000000005');

5

INSERT INTO CMPTR (CMPTR\_ID, DSTRBTR\_ID, CPU\_PCE\_ID, GPU\_PCE\_ID, RAM\_1\_PCE\_ID, RAM\_2\_PCE\_ID, MTHR\_BRD\_PCE\_ID) VALUES

6

( '0000000001', '00001', '0000000004', '0000000003', '0000000001', '0000000001', '0000000006');

1 row(s) inserted.

ORA-01400: cannot insert NULL into ("SQL\_ROCIPUNOUBTGFEQXQXDLOTSNY"."CMPTR"."DSTRBTR\_ID") ORA-06512: at "SYS.DBMS\_SQL", line 1721

ORA-00001: unique constraint (SQL\_ROCIPUNOUBTGFEQXQXDLOTSNY.PK\_CMPTR) violated ORA-06512: at "SYS.DBMS\_SQL", line 1721

.

1

INSERT INTO CMPTR (CMPTR\_ID, DSTRBTR\_ID, CPU\_PCE\_ID, GPU\_PCE\_ID, RAM\_1\_PCE\_ID, RAM\_2\_PCE\_ID, MTHR\_BRD\_PCE\_ID) VALUES

2

( '0000000002', '00001', '0000000004', '0000000003', '0000000001', '0000000001', '0000000006');

ORA-02291: integrity constraint (SQL\_ROCIPUNOUBTGFEQXQXDLOTSNY.FK\_PCE\_MTHR) violated - parent key not found ORA-06512: at "SYS.DBMS\_SQL", line 1721

Select Results

| CMPTR_ID   | DSTRBTR_ID | CPU_PCE_ID | GPU_PCE_ID | RAM_1_PCE_ID | RAM_2_PCE_ID | MTHR_BRD_PCE_ID |
|------------|------------|------------|------------|--------------|--------------|-----------------|
| 0000000001 | 00001      | 0000000004 | 0000000003 | 0000000001   | 0000000001   | 0000000005      |

Download CSV

Testing scenario

- Attempted to insert NULL in column part of PK
- Attempted to insert the same PK in another command
- Attempted to insert FK with inexisting value

Testing the View

SQL Worksheet

```
1 select
2     "Computer ID",
3     "Distributor Name",
4     "CPU Place Name",
5     "GPU Place Name",
6     "Ram 1 Place Name",
7     "Ram 2 Place Name",
8     "Mother Board Place Name"
9 from "CMPTA_FULL_DTL";
```

| Computer ID | Distributor Name | CPU Place Name  | GPU Place Name                                       | Ram 1 Place Name                                       | Ram 2 Place Name                                       | Mother Board Place Name                |
|-------------|------------------|---|--|--|--|--|
| 0000000001  | Asus             | Intel Core i9-10900K Comet Lake, 3.70GHz, 20MB, Socket 1200 | ASUS Phoenix GeForce GTX 1650 OC, 4GB GDDR5, 129-bit | HyperX Predator Black 16GB, DDR4, 3200MHz, CL16, 1.35V | HyperX Predator Black 16GB, DDR4, 3200MHz, CL16, 1.35V | ASUS TUF GAMING B460-PLUS, Socket 1200 |

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