

Insert

Re-create the candidate table as such:

Candidate

Candidate_id (Primary key)
First_name (UK composite)
Last_Name (UK composite)
DOB
Salary (check constraint Salary > 10000 and less than 50000)
Party_id (FK)

Re-create the Party table as such:

Party

Party_id (Primary key)
PartyDesc (Unique key)

You may get an error message on some of these and it may be correct

1) Create the above tables with all the proper constraints. Name all the constraints. All the constraints should be in the CREATE TABLE statement.

```
CREATE TABLE heritt_party
(
  party_id NUMBER CONSTRAINT heritt_party_pk PRIMARY KEY,
  partydesc VARCHAR2(20) CONSTRAINT heritt_party_uk UNIQUE
);

CREATE TABLE heritt_candidate
(
  CANDIDATE_id NUMBER CONSTRAINT heritt_candidate_pk PRIMARY KEY,
  first_name VARCHAR(20),
  last_name VARCHAR(20),
  DOB DATE,
  salary NUMBER CONSTRAINT heritt_candidate_ck CHECK (salary>10000 and salary<50000),
  party_id NUMBER,
  CONSTRAINT heritt_candidate_fk FOREIGN KEY (party_id) REFERENCES heritt_party,
  CONSTRAINT heritt_candidate UNIQUE (first_name, last_name)
);
```

table HERITT_PARTY created.

table HERITT_CANDIDATE created.

2) Insert two rows into each of the above tables. You have to populate the tables in the proper order (You should not get an error for this)

```
CREATE TABLE herтт_candidate
(
  candidate_id NUMBER CONSTRAINT herтт_candidate_pk PRIMARY KEY,
  first_name VARCHAR(20),
  last_name VARCHAR(20),
  DOB DATE,
  salary NUMBER CONSTRAINT herтт_candidate_ck CHECK (salary>10000 and salary<50000),
  party_id NUMBER,
  CONSTRAINT herтт_candidate_fk FOREIGN KEY (party_id) REFERENCES herтт_party,
  CONSTRAINT herтт_candidate UNIQUE (first_name, last_name)
);
```

1 rows inserted.

1 rows inserted.

1 rows inserted.

1 rows inserted.

3) Insert two rows into the Candidate table. Populate all the fields. In one row insert the date using the (mmddyy) format. In another one insert it using (ddyymm) format.

```
INSERT INTO herтт_candidate VALUES (3, 'George', 'Washington', TO_DATE('02 22 1732', 'mmddyy'), 40000, 1);
```


```
INSERT INTO herтт_candidate VALUES(4, 'Abraham', 'Lincoln', TO_DATE('02 12 1809', 'mmddyy'), 25000, 2);
```

1 rows inserted.

1 rows inserted.

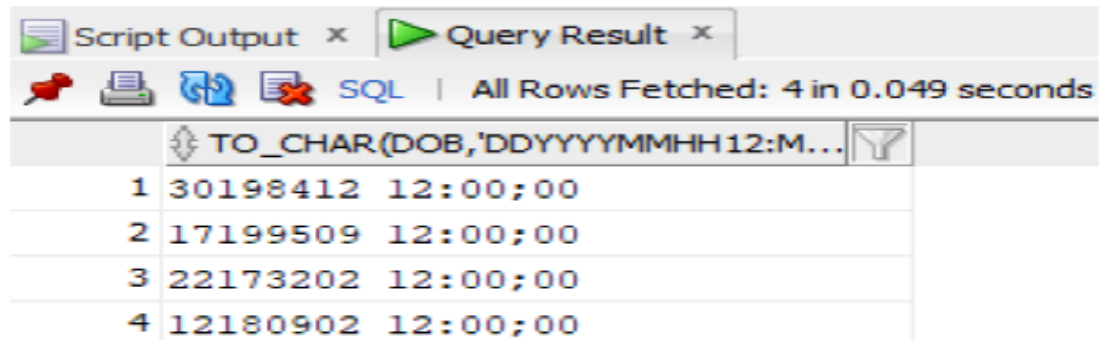
4) Display the DOB information from the candidate table in mmddyyyy format

```
SELECT TO_CHAR(DOB, 'mmddyyyy') FROM herтт_candidate;
```

Script Output x Query Result x	
 All Rows Fetched: 4 in 0.044 seconds	
	TO_CHAR(DOB,'MMDDYYYY')
1	12301984
2	09171995
3	02221732
4	02121809

5) Display the DOB information from the candidate table in ddyyymm hh12:mi:ss format

```
SELECT TO_CHAR(DOB, 'ddyyymm hh12:mi:ss') FROM herтт_candidate;
```



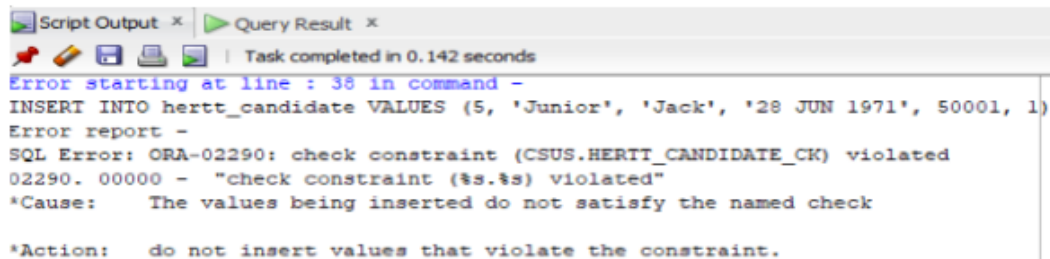
Script Output x Query Result x

SQL | All Rows Fetched: 4 in 0.049 seconds

	TO_CHAR(DOB,'DDYYYYMMHH12:M...
1	30198412 12:00:00
2	17199509 12:00:00
3	22173202 12:00:00
4	12180902 12:00:00

6) Insert another row into candidate table such that it violates the check constraint

```
INSERT INTO herтт_candidate VALUES (5, 'Junior', 'Jack', '28 JUN 1971', 50001, 1);
```



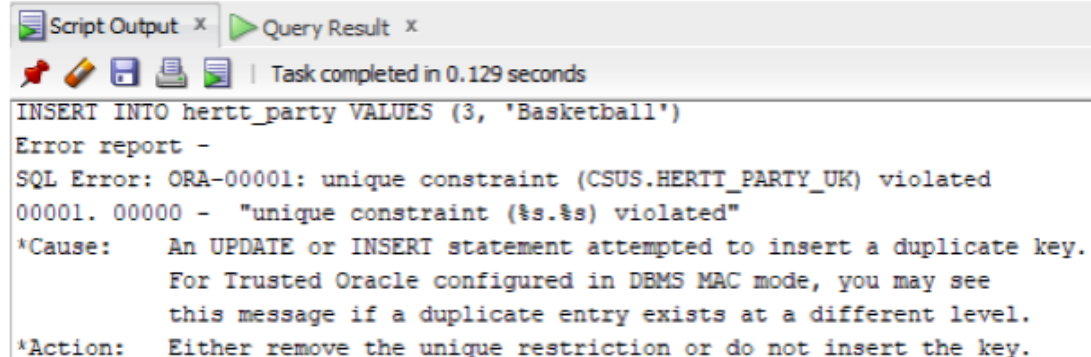
Script Output x Query Result x

Task completed in 0.142 seconds

Error starting at line : 38 in command -
INSERT INTO herтт_candidate VALUES (5, 'Junior', 'Jack', '28 JUN 1971', 50001, 1)
Error report -
SQL Error: ORA-02290: check constraint (CSUS.HERTT_CANDIDATE_CK) violated
02290. 00000 - "check constraint (%s.%s) violated"
*Cause: The values being inserted do not satisfy the named check
*Action: do not insert values that violate the constraint.

7) Insert another row into party such that it violates the Unique constraint

```
INSERT INTO herтт_party VALUES (3, 'Basketball');
```







Script Output x Query Result x

Task completed in 0.129 seconds

INSERT INTO herтт_party VALUES (3, 'Basketball')
Error report -
SQL Error: ORA-00001: unique constraint (CSUS.HERTT_PARTY_UK) violated
00001. 00000 - "unique constraint (%s.%s) violated"
*Cause: An UPDATE or INSERT statement attempted to insert a duplicate key.
For Trusted Oracle configured in DBMS MAC mode, you may see
this message if a duplicate entry exists at a different level.
*Action: Either remove the unique restriction or do not insert the key.

8) Display the constraint information on both tables using the system table
user_constraints

```
SELECT constraint_name, constraint_type, status FROM user_constraints WHERE table_name IN ('HERTT_CANDIDATE', 'HERTT_PARTY');
```

Script Output x Query Result x			
    SQL All Rows Fetched: 6 in 0.603 seconds			
	CONSTRAINT_NAME	CONSTRAINT_TYPE	STATUS
1	HERTT_PARTY_PK	P	ENABLED
2	HERTT_PARTY_UK	U	ENABLED
3	HERTT_CANDIDATE_CK	C	ENABLED
4	HERTT_CANDIDATE_PK	P	ENABLED
5	HERTT_CANDIDATE	U	ENABLED
6	HERTT_CANDIDATE_FK	R	ENABLED