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.

```
Worksheet    Query Builder

CREATE TABLE amele_party(
    party_id NUMBER CONSTRAINT amele_party_id_pk PRIMARY KEY,
    partydesc VARCHAR2(20) CONSTRAINT amele_party_partydesc_uk UNIQUE
);

CREATE TABLE amele_candidate(
    candidate_id NUMBER CONSTRAINT amele_candidate_id_pk PRIMARY KEY,
    first_name VARCHAR2(20),
    last_name VARCHAR(30),
    dob DATE,
    salary NUMBER CONSTRAINT amele_candidate_salary_pk CHECK (salary BETWEEN 10001 AND 49999),
    party_id NUMBER CONSTRAINT amele_candidate_partyid_fk REFERENCES amele_party (party_id),
    CONSTRAINT amele_candidate_name_uk UNIQUE (first_name,last_name)
);
```

Script Output ×

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```
table AMELE_PARTY created.
table AMELE_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)

```
Worksheet    Query Builder

    INSERT INTO amele_party VALUES ('1','Green Party');
    INSERT INTO amele_party VALUES ('2','Communists');

    INSERT INTO amele_candidate VALUES ('1','Jeff','Johnson','10/MAY/1987','25000','1');
    INSERT INTO amele_candidate VALUES ('2','Jack','Smith','13/FEB/1992','12000','2');
```

```
Script Output  x

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1 rows inserted.
1 rows inserted.
1 rows inserted.
1 rows inserted.
```

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

```
Worksheet    Query Builder

    INSERT INTO amele_candidate VALUES ('3','Mikey','Grumble',TO_DATE('01/20/94','mm/dd/yy'),'42000','1');
    INSERT INTO amele_candidate VALUES ('4','Nick','Gobblesnort',TO_DATE('27/07/87','dd/mm/yy'),'34050','2');
```

```
Script Output  x

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1 rows inserted.
1 rows inserted.
```

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

```
Worksheet    Query Builder

    SELECT TO_CHAR(dob, 'MM/DD/YYYY') FROM amele_candidate;
```

```
Script Output  x    ▶ Query Result  x

📌 🖨 🔁 ▦ SQL  |  All Rows Fetched: 4 in 0.137 seconds

     ⬍ TO_CHAR(DOB,'MM/DD/YYYY')
  1  05/10/1987
  2  02/13/1992
  3  01/20/2094
  4  07/27/2087
```

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

Worksheet   Query Builder

```
SELECT TO_CHAR(dob, 'DD/YYYY/MM HH12:MI;SS') FROM amele_candidate;
```

Script Output ×   Query Result ×

SQL | All Rows Fetched: 4 in 0.031 seconds

	TO_CHAR(DOB,'DD/YYYY/MMHH12:MI;SS')
1	10/1987/05 12:00;00
2	13/1992/02 12:00;00
3	20/2094/01 12:00;00
4	27/2087/07 12:00;00

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

Worksheet   Query Builder

```
INSERT INTO amele_candidate VALUES ('5','Gerome','Gurgus','15/SEP/1991','100000','2');
```

Script Output ×

Task completed in 0.091 seconds

```
Error starting at line : 1 in command -
INSERT INTO amele_candidate VALUES ('5','Gerome','Gurgus','15/SEP/1991','100000','2')
Error report -
SQL Error: ORA-02290: check constraint (CSUS.AMELE_CANDIDATE_SALARY_PK) 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

Worksheet   Query Builder

```
INSERT INTO amele_candidate VALUES ('6','Nick','Gobblesnort','27/JUL/87','17920','2');
```

Script Output ×

Task completed in 0.084 seconds

```
Error starting at line : 1 in command -
INSERT INTO amele_candidate VALUES ('6','Nick','Gobblesnort','27/JUL/87','17920','2')
Error report -
SQL Error: ORA-00001: unique constraint (CSUS.AMELE_CANDIDATE_NAME_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

Worksheet | Query Builder

```sql
SELECT table_name,constraint_name,constraint_type FROM user_constraints WHERE table_name='AMELE_PARTY' or table_name='AMELE_CANDIDATE';
```

Script Output ✕ | Query Result ✕

📌 🖨 🔁 🔧 SQL | All Rows Fetched: 6 in 0.549 seconds

	TABLE_NAME	CONSTRAINT_NAME	CONSTRAINT_TYPE
1	AMELE_PARTY	AMELE_PARTY_ID_PK	P
2	AMELE_PARTY	AMELE_PARTY_PARTYDESC_UK	U
3	AMELE_CANDIDATE	AMELE_CANDIDATE_SALARY_PK	C
4	AMELE_CANDIDATE	AMELE_CANDIDATE_ID_PK	P
5	AMELE_CANDIDATE	AMELE_CANDIDATE_NAME_UK	U
6	AMELE_CANDIDATE	AMELE_CANDIDATE_PARTYID_FK	R