

Constraints

Given the two tables in the previous group lab complete the following:

1) Create a check constraint on salary greater than 10000 but less than 50000. Your constraint should be given a name

```
ALTER TABLE Candidate MODIFY Salary CONSTRAINT cand_salary_ck CHECK(Salary>10000 AND Salary<50000);
DESC Candidate;
SELECT table_name, constraint_name, constraint_type FROM user_constraints WHERE table_name='CANDIDATE';
```

```
table CANDIDATE altered.
DESC Candidate
Name          Null      Type
-----
FNAME          VARCHAR2(20)
LNAME          VARCHAR2(30)
DOB            DATE
SALARY         NUMBER
CANDIDATE_ID NOT NULL NUMBER
```

	TABLE_NAME	CONSTRAINT_NAME	CONSTRAINT_TYPE
1	CANDIDATE	SYS_C0024786	P
2	CANDIDATE	CAND_SALARY_CK	C

2) Add a not null constraint to PartyDesc. Do not give a name to your constraint

```
ALTER TABLE Party MODIFY PartyDesc NOT NULL;
DESC Party;
```

```
table PARTY altered.
DESC Party
Name          Null      Type
-----
PARTYDESC NOT NULL VARCHAR2(20)
PARTY_ID      NUMBER
```

3) Disable the check constraint on salary

```
ALTER TABLE Candidate DISABLE CONSTRAINT cand_salary_ck;
SELECT constraint_name, constraint_type, status FROM user_constraints WHERE table_name='CANDIDATE';
```

	CONSTRAINT_NAME	CONSTRAINT_TYPE	STATUS
1	SYS_C0024786	P	ENABLED
2	CAND_SALARY_CK	C	DISABLED

4) Add a foreign key constraint. You have to add an additional column to the proper table. Give your constraint a name (NOTE: Make sure you pick the right table)

```
ALTER TABLE Candidate ADD Party_id NUMBER;  
ALTER TABLE Candidate ADD CONSTRAINT cand_party_id_fk FOREIGN KEY(party_id) REFERENCES Party;  
DESC Candidate;
```

```
table CANDIDATE altered.  
table CANDIDATE altered.  
DESC Candidate  
Name          Null      Type  
-----  
FNAME          VARCHAR2(20)  
LNAME          VARCHAR2(30)  
DOB            DATE  
SALARY          NUMBER  
CANDIDATE_ID NOT NULL NUMBER  
PARTY_ID        NUMBER
```

5) Disable the foreign key constraint

```
ALTER TABLE Candidate DISABLE CONSTRAINT cand_party_id_fk;  
SELECT constraint_name, constraint_type, status FROM user_constraints WHERE table_name='CANDIDATE';
```

	CONSTRAINT_NAME	CONSTRAINT_TYPE	STATUS
1	SYS_C0024786	P	ENABLED
2	CAND_SALARY_CK	C	DISABLED
3	CAND_PARTY_ID_FK	R	DISABLED

6) Drop the foreign key constraint

```
ALTER TABLE Candidate DROP CONSTRAINT cand_party_id_fk;  
SELECT constraint_name, constraint_type, status FROM user_constraints WHERE table_name='CANDIDATE';
```

	CONSTRAINT_NAME	CONSTRAINT_TYPE	STATUS
1	SYS_C0024786	P	ENABLED
2	CAND_SALARY_CK	C	DISABLED