SUBMITTED BY:

DEEPALI

ID: BTBTI20137

ROLL NO.: 2016736

BRANCH: BTECH IT (A)

BATCH: 2

SUBMITTED TO:

DR. KHANDAKAR F. RAHMAN

SUBJECT: DBMS LAB

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ASSIGNMENT – 4

ON: DATABASE CONSTRAINTS

Q1. Add a table-level PRIMAY KEY constraint to the EMP table on the ID column. The constraint should be named at creation. Name the constraint my_emp_id_pk. Hint: The constraint is enabled as soon as the ALTE TABLE command executes successfully.

Ans1.

ALTER TABLE EMP

ADD CONSTRAINT my_emp_id_pk

PRIMARY KEY(ID);

Q2. Create a PRIMARY KEY constraint to the DEPT table using the ID column. The constraint should be named at creation. Name the constraint my_deptid_pk. Hint: The constraint is enabled as soon as the ALTE TABLE command executes successfully.

Ans2.

ALTER TABLE DEPT

ADD CONSTRAINT my_deptid_pk

PRIMARY KEY(ID);

Q3. Add a column DEPT_ID to the EMP table. Add a foreign key reference on the EMP table that ensures that the employee is not assigned to a nonexistent department. Name the constraint my_emp_dept_id_fk.

Ans3.

ALTER TABLE EMP

ADD (DEPT_ID   NUMBER(8));

ALTER TABLE EMP

ADD CONSTRAINT my_emp_dept_id_fk

FOREIGN KEY (DEPT_ID)

REFERENCES EMP(ID);

Q4. Confirm that the constraints were added by querying the USER_CONSTRAINTS view. Note the types and names of the constraints. Save your statement text in a file called lab4_4.sql.

CONSTRAINT_NAME	C
MY_DEPTID_PK	P
MY_EMP_ID_PK	P
MY_EMP_DEPT_ID_FK	R

Ans4.

SELECT constraint_name, constraint_type

FROM   user_constraints

WHERE table_name='EMP' OR table_name='DEPT';

Verification table -

Q5. Display the object names and types from the USER_OBJECTS data dictionary view for the EMP and DEPT tables. Notice that the new tables and a new index were created.

Ans5.

SELECT object_name, object_type

FROM   user_objects

WHERE object_name='EMP' OR object_name='DEPT';

Verification table -

If you have time, complete the following exercise.

Q6. Modify the EMP table. Add a COMMISSION column of NUMBER data type, precision 2, scale 2. Add a constraint to the commission column that ensures that a commission value is greater than zero.

Ans6.

ALTER TABLE EMP

ADD COMMISSION NUMBER(2,2) CONSTRAINT emp_comm_min

CHECK (COMMISSION>0);