

DBMS LAB

LAB ASSIGNMENTS

Week 5

► Defining constraints + NOT NULL constraint + UNIQUE constraint + PRIMARY KEY constraint + FOREIGN KEY constraint + CHECK constraint

1. Create the table MYEMP1 (with the following structure) in Oracle RDBMS.

Column	ENO	ENAME	PAN	JOB	MGR	SAL	DNO
Name							
Data Type	Numeric	Alphanumeric	Alphanumeric	Alphanumeric	Numeric	Numeric	Numeric
Maximum Width	4	20		10	4	5	2
Nullity	No	No	No	Yes	Yes	Yes	Yes
Primary Key	Yes	-	-	-	-	-	-
Check	No	No	No	No	No	Yes	No
Unique	-	-	Yes	-	-	-	-

- a) Add bonus Column to myemp1 table. Take bonus as of type number with size 10.
- b) Alter table to add check constraint. Example: Add check constraint with name bonus ck to check bonus given to every employee should not exceed salary.
- 2. a) Create a table **Depart** with the columns <u>dept_id</u>, dept_name, location_name where dept_id is primary key.
 - b) Create another table **Employ** with the columns <u>empid</u>, name, salary, address, hire date, department no where empid is primary key.
 - Make a referential integrity between department_no and dept_id. Also make sure that salary must contain some values in all rows and each department's name is different.

- Give appropriate names to all the constraints being imposed on both the tables. Insert at least 3 rows in departments table. Insert at least 5 rows in the employees table with different department names.
- 3. a) Create a table **Departments** with the columns dept_id, dept_name, loc_name where dept_id is primary key.
 - b) Create other table **locations** with the columns location_id, location_name, area where location id is primary key.
 - Ensure that location_name acts as another candidate key of the locations table. Make a referential integrity between loc_name of departments table and location_name of locations table.
 - Ensure that dept_name should starts with 'C'
 - Give appropriate names to all the constraints being imposed on the tables. Insert at least three rows in both the tables.
- 4. a) Create a table Employees with the columns empid, name, salary, address, hire_date, mgr_no,dept_name where empid is primary key.
 - Make a referential integrity between emp id and mgr no.
 - Give appropriate names to all the constraints being imposed on the tables. Insert at least 10 rows in the employees table with different department names (Make one department name BCA).