

DBMS LAB ASSIG 3

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-- 1.Create a table emp12, with attributes

-- empid,empname, phno, age, and emp\_country. Make

-- emp id the primary key of the table. Make empname

-- not null, phno unique and put a check constraint on age

-- which make sure employees are not below 18. Put a

-- default value “India'' on emp\_country.

CREATE TABLE emp12(

empid VARCHAR(20) NOT NULL,

empname VARCHAR(30) NOT NULL,

phno VARCHAR(15) UNIQUE,

age INTEGER,

CHECK (age>=18),

empcountry VARCHAR(30) DEFAULT 'INDIA' ,

PRIMARY KEY(empid)

);

DESC emp12;

-- 2.

-- Insert the following tuples into emp12 table.

INSERT INTO emp12 VALUES('112' , 'Michael' , '234' , 19 ,

'Russia');

INSERT INTO emp12(empid , empname , phno , age)

VALUES('113' , 'Abdul' , '913' , 25 );

INSERT INTO emp12 VALUES( '131' ,' ', '678' , 43 , 'USA');

INSERT INTO emp12 VALUES('132' , 'Riya' , '234' , 22 ,

'India');

INSERT INTO emp12 VALUES('113' , 'Lily' , '876' , 60 ,

'UK');

INSERT INTO emp12 VALUES('127' , 'Dino' , '777' , 19 ,

'Italy');

INSERT INTO emp12 (empid , empname , phno , empcountry)

VALUES('117' , 'Indira' , '676' , ' ');

SELECT \*FROM emp12;

-- 3.

--  Drop the check constraint on age.

ALTER TABLE emp12

DROP CONSTRAINT age;

-- 4. Put a default constraint with value 18 on age along

-- with a check constraint which ensures age value is

-- greater than or equal to 18 and less than or equal to

ALTER TABLE emp12

ADD CONSTRAINT age1 CHECK (Age>=18 AND Age<=70);

-- 5.

-- Insert the following rows in the emp12 table.

INSERT INTO emp12 VALUES('114' , 'Raj' , '238' , 54 ,

'USA');

INSERT INTO emp12 VALUES('115' , 'Abhay' , '222' , NULL,NULL);//

-- 6. Create table projectx with attributes pid, pname,

-- phead, ploc and pmembers. pmembers should have a

-- default value of 5. Make (pid,pname) the primary key.

-- Use a constraint named uc\_px\_34 to make phead and

-- ploc unique. Put a check constraint named ck\_px\_5 on

-- pmembers which ensures that the number of pmembers

-- must not exceed 5.

CREATE TABLE projectx(

pid VARCHAR(5)NOT NULL,

pname VARCHAR(20)NOT NULL,

phead INTEGER,

ploc VARCHAR(15),

pmembers INTEGER,

CONSTRAINT pk\_px\_34 PRIMARY KEY (pid , pname),

CONSTRAINT uc\_px\_34 UNIQUE (phead , ploc),

CONSTRAINT ck\_px\_5 CHECK (pmembers<=5)

);

-- 7.Drop the primary key of the projectx table.

ALTER TABLE projectx

DROP CONSTRAINT pk\_px\_34;

-- 8.Put a constraint named pk\_px\_1 on pid, making pid

-- the primary key of the table.

ALTER TABLE projectx

ADD CONSTRAINT pk\_px\_1 PRIMARY KEY(pid);

-- 9.Insert the following rows in projectx table.

INSERT INTO projectx VALUES('a11' , 'Dexter' , 112 ,

'Miami' , 2);

INSERT INTO projectx VALUES('p67' , 'Luna' , 113 ,

'Chennai' , 3);

INSERT INTO projectx VALUES('x55' , 'East\_west' , 114 ,

'Japan' , NULL);

SELECT \* FROM projectx;

-- 10. Delete all rows from emp12 table except the rows

-- having primary keys (112, 113, 114).

DELETE FROM emp12 WHERE empid>='115';

-- 11. Insert a column named project in the emp12

-- table.

ALTER TABLE emp12

ADD projrct varchar(3);

-- 12.

--  Update the table as follows.

UPDATE emp12

SET projrct = 'a11'

WHERE empid = 112;

UPDATE emp12

SET projrct = 'p67'

WHERE empid = 113;

UPDATE emp12

SET projrct = 'x55'

WHERE empid = 114;

-- 13. Make the project attribute of the emp12 table a

-- foreign key that links it to the pid attribute of the

-- projectx table.

ALTER TABLE emp12 ADD FOREIGN KEY (projrct) REFERENCES

projectx(pid);

-- 14. Insert the following tuples in the emp12 table.

insert into emp12(empid,empname,phno,projrct)VALUES

(115,'Bono',910,'a11');

insert into emp12(empid,empname,phno,age,empcountry,projrct)

VALUES (116,'caitlin',660,25,'uk','p67');

insert into emp12(empid,empname,phno,age,projrct)

VALUES(117,'rajesh',200,60,'x50');

-- 15.Make the phead attribute of the projectx table a

-- foreign key that links it to the empid attribute of the

-- emp12 table.

ALTER TABLE projectx ADD FOREIGN KEY (phead) REFERENCES

emp12(empid);

-- 18. Make emp\_id the primary key of the employee

-- table (of assignment 2).

CREATE TABLE employee

(

emp\_id INTEGER NOT NULL,

f\_name VARCHAR(20),

l\_name VARCHAR(20),

jobtype VARCHAR(20),

salary INTEGER,

commision INTEGER,

dept VARCHAR(20),

manager\_id INTEGER,

PRIMARY KEY(emp\_id),

doj VARCHAR(20)

);

-- 20. Make d\_name the primary key of the department

-- table (of assignment 2).

CREATE TABLE department

(

d\_name varchar(20)NOT NULL PRIMARY KEY,

d\_loc varchar(20),

hod\_id INTEGER NOT NULL

);

-- 21. Make the dept attribute of the employee table a

-- foreign key refering to the d\_name attribute of the

-- department table (of assignment 2).

ALTER TABLE employee

ADD FOREIGN KEY (dept) REFERENCES department(d\_name);

OUTPUTS:-







