



# KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

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## 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 referring to the d_name attribute of the  
-- department table (of assignment 2).
```

```
ALTER TABLE employee  
ADD FOREIGN KEY (dept) REFERENCES department(d_name);
```

**OUTPUTS:–**

Data

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Cost: 6ms < 1 > Total 6

✓	🔍	Field	Type	Null	Key	Default	Extra
	1	empid	varchar(20)	NO	PRI	(NULL)	
	2	empname	varchar(30)	NO		(NULL)	
	3	phno	varchar(15)	YES	UNI	(NULL)	
	4	age	int	YES		(NULL)	
	5	empcountry	varchar(30)	YES		INDIA	
	6	projct	varchar(3)	YES	MUL	(NULL)	

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127.0.0.1

assig3

Go Live

emp12

1 SELECT \*FROM emp12

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Input To Search Data

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Cost: 22ms < 1 > Total 5

	🔍	* empid varchar(20)	* empname varchar(30)	phno varchar(15)	age int	empcountry varchar(30)	projct varchar(3)
	1	112	Michael	234	19	Russia	a11
	2	113	Abdul	913	25	INDIA	p67
	3	114	Raj	238	54	USA	x55
	4	115	Bono	910	(NULL)	INDIA	a11
	5	116	caitlin	660	25	uk	p67

emp12

```
1 SELECT *FROM emp12
```

Free 1

Input To Search Data

Cost: 3ms < 1 > Total 3

```
DELETE FROM emp12 WHERE empid>='115'
```

AffectedRows : 2

		* empid varchar(20)	* empname varchar(30)	phno varchar(15)	age int	empcountry varchar(30)	projct varchar(3)
	1	112	Michael	234	19	Russia	a11
	2	113	Abdul	913	25	INDIA	p67
	3	114	Raj	238	54	USA	x55

projectx

```
1 SELECT * FROM projectx
```

Free 1

Input To Search Data

Cost: 19ms < 1 > Total 3

		* pid varchar(5)	* pname varchar(20)	phead int	ploc varchar(15)	pmembers int
	1	a11	Dexter	112	Miami	2
	2	p67	Luna	113	Chennai	3
	3	x55	East_west	114	Japan	(NULL)

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