KALINGA INSTITUTE OF INDUSTRIAL TECHNOLOGY (KIIT)

Deemed to be University U/S 3 of UGC Act, 1956

DBMS LAB ASSIG 2

- Name :HITU RAJ
- Roll no. :2005025
  - Branch :CSE

2005025_Hitu raj

```sql
--Q.Create a employee table:-
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)
);
INSERT INTO
employee(emp_id,f_name,l_name,jobtype,salary,dept,doj)
```
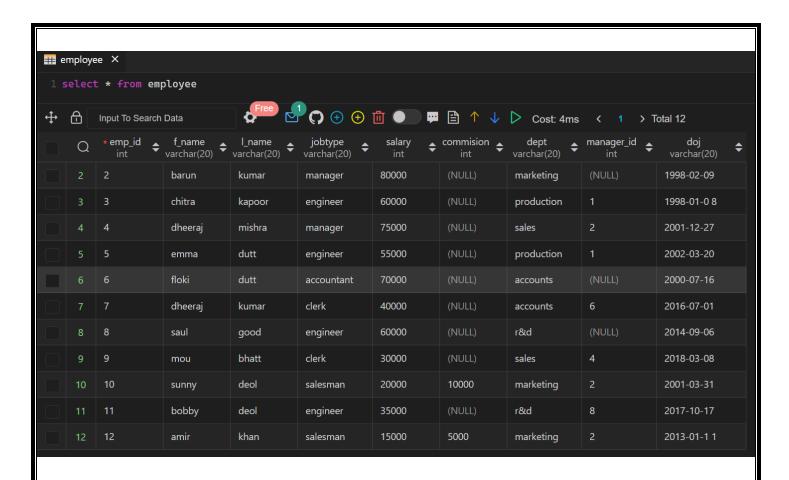
```sql
values(1, 'arun' , 'khan' , 'manager' ,90000, 'production'
,'1998-01-04');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,dept,doj)
values(2 ,'barun','kumar','manager',80000,'marketing','1998-02-
09');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,dept,manager_id,doj) values(3 ,
'chitra','kapoor','engineer',60000,'production',1,'1998-01-0
8');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,dept,manager_id,doj)
values(4 ,'dheeraj','mishra','manager',75000,'sales',2,'2001-12-
27');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,dept,manager_id,doj) values(5 ,
'emma','dutt','engineer',55000,'production',1,'2002-03-20');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,dept,doj) values(6 ,
'floki','dutt','accountant',70000,'accounts','2000-07-16');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,dept,manager_id,doj) values(7 ,
'dheeraj','kumar','clerk',40000,'accounts',6,'2016-07-01');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,dept,doj) values(8 ,
'saul','good','engineer',60000,'r&d','2014-09-06');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,dept,manager_id,doj) values(9 ,
'mou','bhatt','clerk',30000,'sales',4,'2018-03-08');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,commision,dept,manager_id,doj)
values(10 ,'sunny','deol','salesman',20000,10000,'marketing'
,2,'2001-03-31');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,dept,manager_id,doj) values(11,
'bobby','deol','engineer',35000,'r&d',8,'2017-10-17');
INSERT INTO employee(emp_id ,
f_name,l_name,jobtype,salary,commision,dept,manager_id,doj)
values(12,
'amir','khan','salesman',15000,5000,'marketing',2,'2013-01-1
1');
select * from employee;


--Q.3
--Q.Create a Department table:-
```

```sql
CREATE TABLE department
(
d_name varchar(20),
d_loc varchar(20),
hod_id INTEGER NOT NULL
);
INSERT INTO department VALUES('sales','kol',4);
INSERT INTO department VALUES('accounts','delhi',6);
INSERT INTO department VALUES('production','kol',1);
INSERT INTO department VALUES('marketing','kol',2);
INSERT INTO department VALUES('R&D','delhi',8);
select * from department;
--Q.Q4

--Q.Create a location table:-
CREATE TABLE location
(
loc_id INT NOT NULL,
city VARCHAR(20),
contact_no VARCHAR(10),
primary key(loc_id)
);
ALTER TABLE location
DROP COLUMN contact_no;
INSERT INTO location(loc_id,city) VALUES(1,'kolkata');
INSERT INTO location(loc_id, city) VALUES(2,'mumbai');
SELECT * from location;

--Q.30
select dept from employee;
--Q.31
select distinct dept from employee;
--Q.32
select * from employee where salary>50000;

--Q.33
select emp_id from employee where manager_id<>1;
--Q.34
select * from employee where salary>=40000 AND salary<=
70000;
--Q.35
select * from employee where manager_id=1 or manager_id=6 or
manager_id=8;

--Q.36
select f_name,salary from employee where l_name='khan';
--Q.37
```

```sql
select f_name,salary from employee where l_name LIKE 'k%';
--Q.38
select f_name,l_name,salary from employee where l_name LIKE
'k%r';

--Q.39
select * from employee where l_name LIKE '%o__';
--Q.40
select * from employee where manager_id IS NULL;
--Q.41
select * from employee where jobtype='engineer' AND
salary>50000;
--Q.42

select * from employee where dept='production' AND
salary>60000;
--Q.43
select * from employee where jobtype<>'manager' AND
jobtype<>'engineer' AND jobtype<>'clerk';
--Q.44
select * from employee where salary>49000 OR salary<29000;
--Q.45
select * from employee where l_name NOT LIKE "%o_";

--Q.46
select * from employee where commision IS NOT NULL;
--Q.47
select SYSDATE();
--Q.48
select datediff(sysdate(),doj)/7 from employee;
--Q.49
select * from employee where emp_id=2;
--Q.50
DELETE from employee where dept='sales' AND
jobtype<>'manager';
select * from employee;

--Q.51
INSERT INTO
employee(f_name,l_name,jobtype,salary,commision,manager_id,d
oj)
VALUES('anand','patil','engineer',28000,2000,1,"2017-01-31")
;
INSERT INTO
employee(f_name,l_name,jobtype,salary,commision,manager_id,d
oj)
VALUES('anandi','patel','clerk',12000,500,1,"2017-04-01");
```

```sql
--Q.52
INSERT INTO department(d_name,d_loc,hod_id)
VALUES('Admin','Mumbai',5);

INSERT INTO department(d_name,d_loc,hod_id)
VALUES('Transport','Mumbai',3);
--Q.53
UPDATE employee
set dept='admin'
where f_name='anand';
--Q.54
UPDATE employee
set manager_id=1

where manager_id=2;
--Q.55
select * from employee
order by salary desc;
--Q.56
select * from employee
order by l_name;

--Q.57
delete from employee
where jobtype='salesman' and datediff(sysdate(),doj)/365
< 15;
--Q.58
commit;
```

OUTPUTS:-

employee ✕

```
1 select * from employee
```

	Q	*emp_id int	f_name varchar(20)	l_name varchar(20)	jobtype varchar(20)	salary int	commision int	dept varchar(20)	manager_id int	doj varchar(20)
☐	2	2	barun	kumar	manager	80000	(NULL)	marketing	(NULL)	1998-02-09
☐	3	3	chitra	kapoor	engineer	60000	(NULL)	production	1	1998-01-0 8
☐	4	4	dheeraj	mishra	manager	75000	(NULL)	sales	2	2001-12-27
☐	5	5	emma	dutt	engineer	55000	(NULL)	production	1	2002-03-20
◼	6	6	floki	dutt	accountant	70000	(NULL)	accounts	(NULL)	2000-07-16
☐	7	7	dheeraj	kumar	clerk	40000	(NULL)	accounts	6	2016-07-01
☐	8	8	saul	good	engineer	60000	(NULL)	r&d	(NULL)	2014-09-06
☐	9	9	mou	bhatt	clerk	30000	(NULL)	sales	4	2018-03-08
☐	10	10	sunny	deol	salesman	20000	10000	marketing	2	2001-03-31
☐	11	11	bobby	deol	engineer	35000	(NULL)	r&d	8	2017-10-17
☐	12	12	amir	khan	salesman	15000	5000	marketing	2	2013-01-1 1

department ✕   ▷ ⬚ ⋯

```
1 select * from department
```

✓	Q	d_name varchar(20)	d_loc varchar(20)	*hod_id int
	1	sales	kol	4
	2	accounts	delhi	6
	3	production	kol	1
	4	marketing	kol	2
	5	R&D	delhi	8

location

```
1 SELECT * from location
```

Input To Search Data

Cost: 11ms < 1 > Total 2

		* loc_id int	city varchar(20)	contact_no varchar(10)
	1	1	kolkata	(NULL)
	2	2	mumbai	(NULL)

employee

```
1 select dept from employee
```

Input To Search Data

Cost: 2ms < 1 > Total 12

		dept varchar(20)
	1	production
	2	marketing
	3	production
	4	sales
	5	production
	6	accounts
	7	accounts
	8	r&d
	9	sales
	10	marketing

```
1 select distinct dept from
```

Input To Search Data

Cost: 3ms <

		dept varchar(20)
☐	1	production
☐	2	marketing
☐	3	sales
☐	4	accounts
☐	5	r&d

```
1 select * from employee where manager_id IS NULL
```

Input To Search Data   Free Cost: 3ms < 1 > Total 4

		* emp_id int	f_name varchar(20)	l_name varchar(20)	jobtype varchar(20)	salary int	commision int	dept varchar(20)	manager_id int	doj varchar(20)
☐	1	1	arun	khan	manager	90000	(NULL)	production	(NULL)	1998-01-04
☐	2	2	barun	kumar	manager	80000	(NULL)	marketing	(NULL)	1998-02-09
☐	3	6	floki	dutt	accountant	70000	(NULL)	accounts	(NULL)	2000-07-16
☐	4	8	saul	good	engineer	60000	(NULL)	r&d	(NULL)	2014-09-06

0 0 127.0.0.1 assig2   Ln 34, Col 30 (31 selected)   Spaces: 4

employee ✕

```
1 select * from employee where emp_id=2
```

Input To Search Data   Free   Cost: 3ms   < 1 > Total 1

	* emp_id int	f_name varchar(20)	l_name varchar(20)	jobtype varchar(20)	salary int	commision int
1	2	barun	kumar	manager	80000	(NULL)

employee ✕

```
1 select * from employee where salary>49000 OR salary<29000
```

Input To Search Data   Free   Cost: 3ms   < 1 > Total 9

	* emp_id int	f_name varchar(20)	l_name varchar(20)	jobtype varchar(20)	salary int	commision int	dept varchar(20)	manager_id int	doj varchar(20)
1	1	arun	khan	manager	90000	(NULL)	production	(NULL)	1998-01-04
2	2	barun	kumar	manager	80000	(NULL)	marketing	(NULL)	1998-02-09
3	3	chitra	kapoor	engineer	60000	(NULL)	production	1	1998-01-0 8
4	4	dheeraj	mishra	manager	75000	(NULL)	sales	2	2001-12-27
5	5	emma	dutt	engineer	55000	(NULL)	production	1	2002-03-20
6	6	floki	dutt	accountant	70000	(NULL)	accounts	(NULL)	2000-07-16
7	8	saul	good	engineer	60000	(NULL)	r&d	(NULL)	2014-09-06
8	10	sunny	deol	salesman	20000	10000	marketing	2	2001-03-31
9	12	amir	khan	salesman	15000	5000	marketing	2	2013-01-1 1

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