CSE 2005:

Database Management systems

Digital assignment

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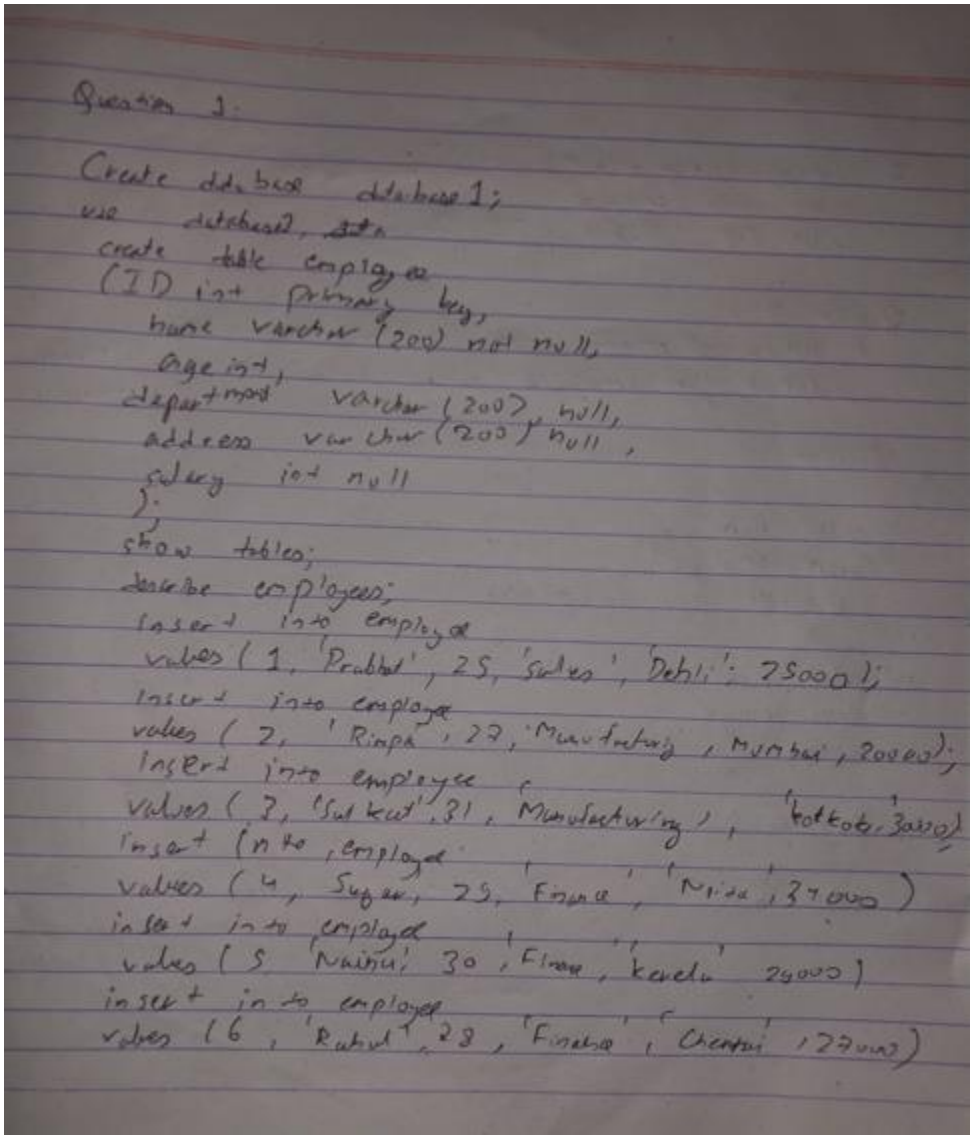
1. Create the following table. Include the KEY and NULL Constraint at the time of creating the table

Employee

ID	Name	AGE	Department	Address	Salary
1	Prabhat	25	Sales	Delhi	25000
2	Rimpa	27	Manufacturing	Mumbai	20000
3	Saikat	31	Manufacturing	Kolkata	30000
4	Sagar	29	Finance	Noida	34000
5	Naina	30	Finance	Kerela	29000
6	Rahul	28	Finance	Chennai	27000

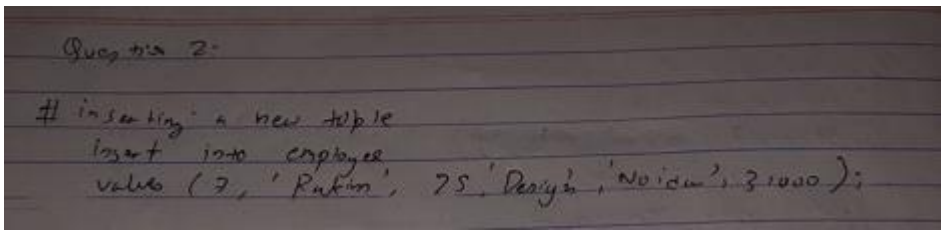


```sql
create database database1;
use database1;
#creating table
create table employee
(
ID int primary key,
name varchar(200) not null,
age int,
department varchar(200) null,
address varchar(200) null,
salary int null
);
show tables;
describe employee;
insert into employee
values(1,'Prabhat',25,'sales','Dehli',25000);
insert into employee
values(2,'Rimpa',27,'Manufacturing','Mumbai',20000);

insert into employee
values(3,'Saikat',31,'Manufacturing','Kolkota',30000);
insert into employee
values(4,'Sagar',29,'Finance','Noida',34000);
insert into employee
values(5,'Naina',30,'Finance','Kerela',29000);
insert into employee
values(6,'Rahul',28,'Finance','Chennai',27000);
select * from employee;
```

ID	name	age	department	address	salary
1	Prabhat	25	sales	Dehli	25000
2	Rimpa	27	Manufacturing	Mumbai	20000
3	Saikat	31	Manufacturing	Kolkota	30000
4	Sagar	29	Finance	Noida	34000
5	Naina	30	Finance	Kerela	29000
6	Rahul	28	Finance	Chennai	27000

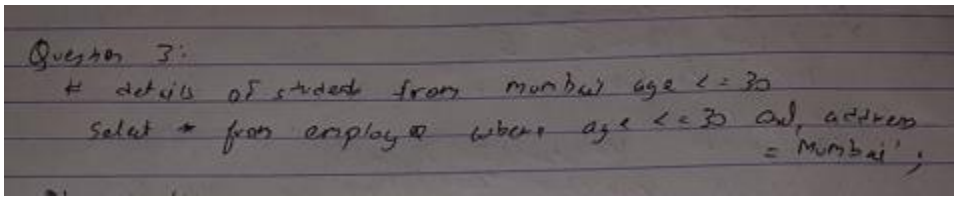
2. Write the query to insert a new tuple (7, Raktim, 25, Design, Noida, 31000)




```
27 •  select * from employee;
28
29 •  insert into employee
30    values(7,'Raktim',25,'Design','Noida',31000);
```

ID	name	age	department	address	salary
1	Prabhat	25	sales	Dehli	25000
2	Rimpa	27	Manufacturing	Mumbai	20000
3	Saikat	31	Manufacturing	Kolkota	30000
4	Sagar	29	Finance	Noida	34000
5	Naina	30	Finance	Kerela	29000
6	Rahul	28	Finance	Chennai	27000
7	Raktim	25	Design	Noida	31000

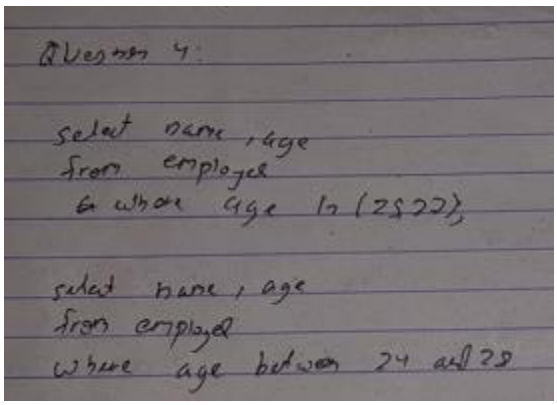
3. Write a query to find the details of an employee where age is <= 30 and residing in Mumbai.




```
select * from employee where age<=30 and address='Mumbai';
```

ID	name	age	department	address	salary
2	Rimpa	27	Manufacturing	Mumbai	20000

4. Write a query to see the Name and Age of the employee using “IN” and “Between” operator where age can be 25 or 27.



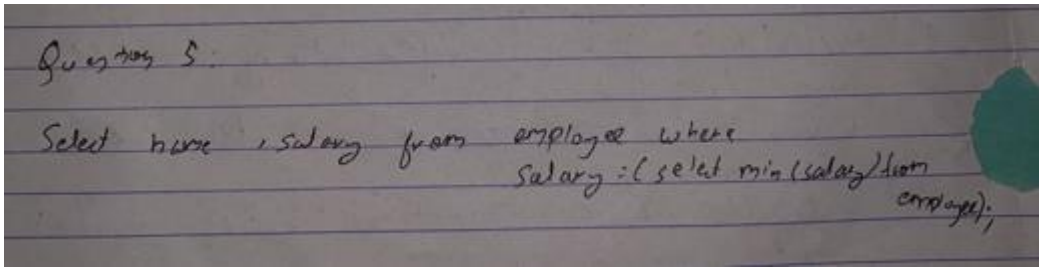

```
34 •  select name,age
35    from employee
36    where age in (25,27);
```

	name	age
▶	Prabhat	25
	Rimpa	27
	Raktim	25

```
38 •  select name,age
39    from employee where age between 24 and 28;
```

	name	age
▶	Prabhat	25
	Rimpa	27
	Rahul	28
	Raktim	25

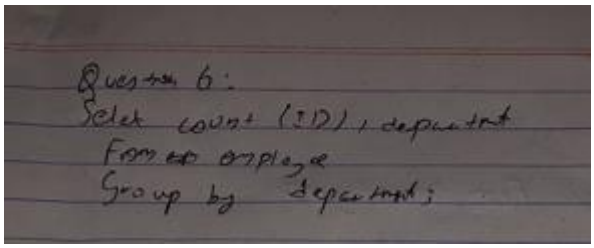
5. Write a query to find the employee who is getting the minimum salary. Display the name and salary



```
40 •  select name,salary from employee where salary=(select min(salary) from employee);
```

name	salary
Rimpa	20000

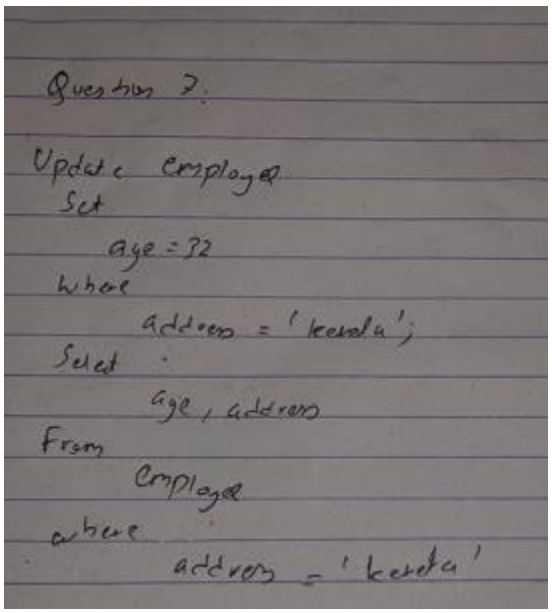
6. Write a query to find the number of employees in each department.




```
42 •  select COUNT(ID), department
43    from employee
44    group by department;
```

COUNT(ID)	department
1	sales
2	Manufacturing
3	Finance
1	Design

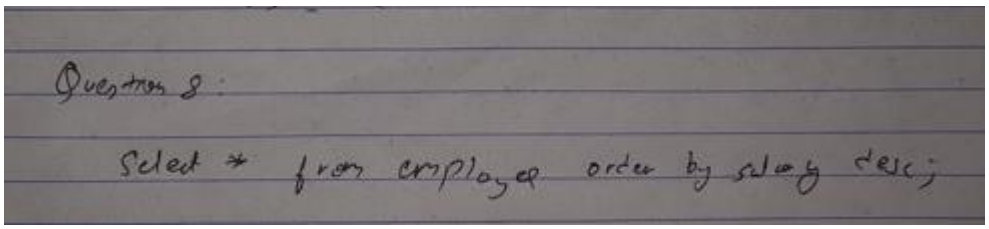
7. Write a query to update the age (new age: 32) of the employee residing in Kerela




```sql
update employee
set
    age=32
where
    address='Kerela';
SELECT
    age,address
from
    employee
where
    address='Kerela';
```

AGE	ADDRESS
32	Kerela

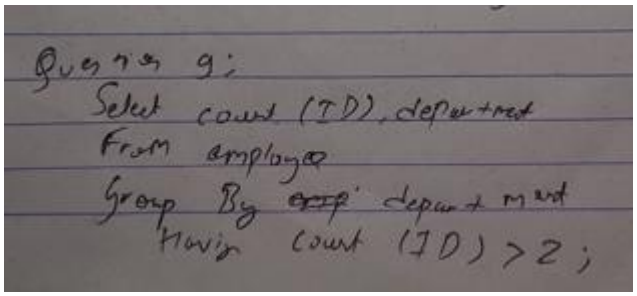
8. Write a query to see the employee details in decreasing order (high to low) of their salary




```
select * from employee order by salaray desc;
```

ID	name	age	department	address	salary
4	Sagar	29	Finance	Noida	34000
7	Raktim	25	Design	Noida	31000
3	Saikat	31	Manufacturing	Kolkota	30000
5	Naina	30	Finance	Kerela	29000
6	Rahul	28	Finance	Chennai	27000
1	Prabhat	25	Sales	Delhi	25000
2	Rimpa	27	Manufacturing	Mumbai	20000

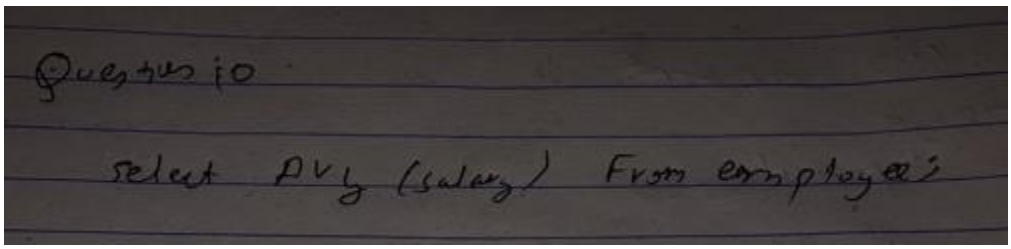
9. Write a query to find the number of employees in each department with more than 2 employees.




```
select COUNT(ID),department
from employee
group by department
having count (ID)>2;
```

COUNT(ID)	department
3	Finance

10. Write a query find the average employee salary that the company have to pay.




```
65 •  select avg(salary) from employee;
```

	avg(salary)
▶	28000.0000