

VERITAS!



A quest for transparency in
databases..

HELLO! I'm
Shreya...

You are in my project based on
auditing company.



INTRODUCTION

- Audits are performed to ensure that financial statements are prepared in accordance with the relevant accounting standards.
- This project aims to comprehensively analyze employee data, audit information, and contractor details within an organization.



OBJECTIVE

- The purpose of this project is to leverage data manipulation techniques to **extract valuable insights** from the provided datasets.
- The extracted information will be valuable for Audit department, Human Resources, Finance and Management.



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01

First we will see to get avg, max, min salary of employees with 45000 and above salary.



02

Second will find the avg, max, min and sum of salary paid by company to employee with Emp ID 27.



03

Then, we will see how to resolve "accoun" and "ting" and get corrected to "counting"



04

After that we will see to get the list of employees from even row to complete last pending task.



05

And we'll thank our 20 years dedicated employees with bonus on occasion of company's silver jubilee.



06

Then we will also get Rekha's punctuality in office timings to interpret her performance.

07

Provide the list of employees from Chennai who has scheduled contractors for today's audits (with audit list) and also create list of no of mandays used with overall expenses, to proceed payment.





01 WE WILL TALK ABOUT THIS FIRST

We will see to get Average, Maximum, Minimum salary of employees with 45000 and above salary.

TABLE

MariaDB [shreya]> select*from employees order by id;

id	city	name	salary	branch
1	mathura	Santhosh	10000	Chennai
2	jodhpur	Subhash	12000	Chennai
3	Solapur	Shanthi	9000	Chennai
4	rishikesh	Kreethi	15000	Chennai
5	hyderabad	Pooja	50000	Chennai
6	shimla	SUresh	7000	Chennai
7	Jammu	Rakesh	6000	Chennai
8	Srinagar	Ajay	25000	Chennai
9	Uttarpradaesh	Shailesh	30000	Chennai
10	Gujarat	Hitesh	45000	Chennai
11	Jaunpur	Sukesh	12500	Kolkata
12	Bangalore	Dimple	50000	Kolkata
13	Kutch	Seetha	70000	Kolkata
14	Mangalore	Sunil	65000	Kolkata
15	Sultanpur	Saru	50000	Kolkata
16	MadhyaPradesh	Javin	10000	Kolkata
17	Vadodra	Somesh	15000	Kolkata
18	Punjab	Sandeep	18000	Kolkata
19	Haryana	Sangeeta	38000	Kolkata
20	Chattisgarh	Shrishti	45000	Kolkata
21	Chandigarh	Ramesh	11500	Delhi
22	Patna	Rekha	25000	Delhi
23	Surat	Geeta	75000	Delhi
24	Baroda	Sanjay	55000	Delhi
25	Sahranpur	Banu	38000	Delhi
26	Banaras	Pravin	15000	Delhi
27	Jamnagar	Romesh	18000	Delhi

28	Sundarnagar	Randeep	36000	Delhi
29	Chennai	Sakshi	39000	Delhi
30	Kerala	Shrimati	48000	Delhi
31	Kanpur	Shravan	30000	Kolkata
32	Agra	Madhavan	20000	Kolkata
33	Pune	Suraj	18000	Delhi
34	Chennai	Shankar	56000	Chennai
35	Rajasthan	Mangal	50000	Delhi
36	Jodhpur	Anuj	32000	Delhi
37	Haryana	Sajal	30000	Kolkata
38	KanyaKumari	Srivatsan	25000	Chennai
39	UttarPradesh	Aman	17000	Chennai
40	Kolkata	Prince	28000	Kolkata
41	Bangalore	Ravi	23000	Chennai
42	Bangalore	AnandBabu	29000	Chennai
43	Allahabad	Ashraf	30000	Delhi
44	Mangalore	Hussain	20000	Chennai
45	Tiruvannamalai	Srinivasan	23000	Chennai
46	Bihar	Arun	17000	Delhi
47	Orissa	Bijoy	32000	Kolkata
48	Bangalore	Tarak	25000	Chennai
49	Varanasi	Anandi	32000	Chennai
50	Hyderabad	Harsha	35000	Chennai

50 rows in set (0.072 sec)

DID YOU KNOW?

```
MariaDB [shreya]> select avg(salary), max(salary), min(salary) from employees where salary>45000;
```

avg(salary)	max(salary)	min(salary)
56900.0000	75000	48000

```
1 row in set (0.001 sec)
```





02 NOW WE WILL TALK ABOUT THIS

Find the Average, Maximum, Minimum and Sum of salary paid by company to employee with Emp ID 27.



```
MariaDB [shreya]> select avg(salary),max(salary),min(salary),sum(salary) from employees where id=27;
+-----+-----+-----+-----+
| avg(salary) | max(salary) | min(salary) | sum(salary) |
+-----+-----+-----+-----+
| 18000.0000 | 18000 | 18000 | 18000 |
+-----+-----+-----+-----+
1 row in set (0.001 sec)
```

Lnno



03 THEN WE WILL SEE THIS

We will see how to resolve “accoun” and “ting” and get corrected to “counting”

OUTPUT

```
MariaDB [shreya]> select substr(concat("accoun","ting"),3,8);
+-----+
| substr(concat("accoun","ting"),3,8) |
+-----+
| counting                             |
+-----+
1 row in set (0.001 sec)
```



04 AFTER THAT WE WILL SEE THIS

Get the list of employees from even row to complete last pending task.

MariaDB [shreya]> select*from employees where id%2=0;

id	city	name	salary	branch
4	rishikesh	Kreethi	15000	Chennai
2	jodhpur	Subhash	12000	Chennai
6	shimla	SUresh	7000	Chennai
8	Srinagar	Ajay	25000	Chennai
10	Gujarat	Hitesh	45000	Chennai
20	Chattisgarh	Shrishti	45000	Kolkata
22	Patna	Rekha	25000	Delhi
24	Baroda	Sanjay	55000	Delhi
26	Banaras	Pravin	15000	Delhi
28	Sundarnagar	Randeep	36000	Delhi
30	Kerala	Shrimati	48000	Delhi
12	Bangalore	Dimple	50000	Kolkata
14	Mangalore	Sunil	65000	Kolkata
16	MadhyaPradesh	Javin	10000	Kolkata
18	Punjab	Sandeep	18000	Kolkata
32	Agra	Madhavan	20000	Kolkata
34	Chennai	Shankar	56000	Chennai
36	Jodhpur	Anuj	32000	Delhi
38	KanyaKumari	Srivatsan	25000	Chennai
40	Kolkata	Prince	28000	Kolkata
42	Bangalore	AnandBabu	29000	Chennai
44	Mangalore	Hussain	20000	Chennai
46	Bihar	Arun	17000	Delhi
48	Bangalore	Tarak	25000	Chennai
50	Hyderabad	Harsha	35000	Chennai

25 rows in set (0.064 sec)





05 WE WILL SEE THIS

We wish to thank our dedicated employees for their support and consistency for continuous 20 years, through bonus on the occasion of company's silver jubilee.

LET'S REVIEW THE TABLE.

MariaDB [shreya]> select*from bonus order by did;

did	doj	department_name	name	age	salaries	in_time	out_time
1	2023-05-01	Field_Auditor	Shravan	35	30000	10:00:00	07:10:00
2	2020-01-03	Field_auditor	Madhavan	25	20000	09:45:00	08:00:00
3	2015-04-01	Field_auditor	Suraj	22	18000	10:00:00	06:55:00
4	2011-06-03	Auditor	Mangal	45	50000	10:00:00	07:25:00
5	2018-03-01	Auditor	Shankar	37	56000	10:05:00	07:00:00
6	2006-10-01	Auditor	Subhash	37	38000	09:25:00	07:30:00
7	2017-04-01	Field_Auditor	Rakesh	35	10000	10:00:00	08:00:00
8	2011-03-01	Field_Auditor	Ajay	25	23000	10:00:00	07:00:00
9	2024-05-09	Field_Auditor	Shailesh	29	35000	10:00:00	07:30:00
10	2020-09-01	Field_Auditor	Hitesh	23	22000	10:00:00	07:30:00
11	2010-05-01	Field_Auditor	Suresh	20	7000	10:15:00	07:00:00
12	2022-03-01	Field_Auditor	Rakesh	18	6000	10:15:00	07:45:00
13	2019-06-01	Field_Auditor	Ajay	28	25000	10:00:00	07:00:00
14	2020-03-01	Field_Auditor	Shailesh	25	30000	10:00:00	07:00:00
15	2017-01-01	Field_Auditor	Hitesh	37	40000	10:07:00	07:30:00
16	2023-09-01	Field_Auditor	Sukesh	21	12500	10:03:00	07:00:00
17	2017-06-03	Team_Leader	Dimple	27	50000	09:55:00	07:10:00
18	2010-05-01	Team_Leader	Seetha	50	70000	10:45:00	08:00:00
19	2012-07-01	Team_Leader	Sunil	53	65000	11:00:00	08:45:00
20	2019-09-01	Auditor	Saru	27	50000	10:15:00	07:15:00
21	2023-10-01	Field_Auditor	Javin	22	10000	10:00:00	07:10:00
22	2023-02-01	Field_Auditor	Somesh	24	15000	10:30:00	07:00:00
23	2023-09-01	Field_Auditor	Sandeep	21	18000	10:05:00	07:20:00
24	2020-06-01	Auditor	Sangeetha	29	38000	09:45:00	07:30:00
25	2019-11-01	Team_Leader	Shristi	35	45000	10:00:00	07:00:00
26	2024-03-01	Field_Auditor	Ramesh	20	11500	10:00:00	07:05:00
27	2021-07-01	Auditor	Rekha	25	25000	10:09:00	07:11:00
28	2017-03-01	Team_Leader	Geeta	40	75000	10:00:00	07:45:00
29	2020-09-01	Field_Auditor	Sanjay	29	55000	10:00:00	07:30:00
30	2022-02-01	Field_Auditor	Banu	28	38000	09:45:00	07:28:00
31	2023-10-01	Auditor	Pravin	20	15000	09:55:00	07:00:00
32	2023-12-01	Field_Auditor	Romesh	22	18000	10:00:00	07:00:00
33	2019-04-01	Field_Auditor	Randeep	30	36000	09:40:00	07:15:00
34	2019-07-01	Auditor	Sakshi	29	39000	10:30:00	07:10:00
35	2016-10-01	Team_Leader	Shrimati	42	48000	11:00:00	07:30:00
36	2021-09-01	Field_Auditor	Anuj	40	32000	10:20:00	07:25:00
37	2021-05-01	Field_Auditor	Sajal	25	30000	10:30:00	07:30:00
38	2022-01-01	Field_Auditor	Srivatsan	22	25000	10:45:00	07:20:00
39	2023-07-01	Auditor	Aman	20	17000	10:00:00	07:00:00
40	2021-12-01	Field_Auditor	Prince	27	28000	10:20:00	07:15:00
41	2022-06-01	Field_Auditor	Ravi	22	23000	09:55:00	07:15:00
42	2020-01-01	Field_Auditor	AnandBabu	26	29000	10:15:00	07:00:00
43	2019-08-01	Field_Auditor	Ashraf	28	30000	10:05:00	07:00:00
44	2024-01-01	Field_Auditor	Hussain	20	20000	10:15:00	07:05:00
45	2020-01-01	Field_Auditor	Srinivasan	22	23000	10:05:00	07:00:00
46	2023-01-01	Field_Auditor	Arun	21	17000	10:00:00	07:05:00
47	2017-06-01	Field_auditor	Bijoy	26	32000	10:00:00	07:00:00
48	2022-04-01	Field_Auditor	Tarak	23	25000	09:50:00	07:10:00
49	2018-07-01	Auditor	Anandi	27	32000	10:05:00	07:10:00
50	2018-06-01	Auditor	Harsha	28	35000	10:00:00	07:00:00

50 rows in set (0.004 sec)

BONUS OF EACH EMPLOYEE

```
MariaDB [shreya]> select doj, name, age, department_name, salaries,  
-> (case when doj<"2020-12-31" then 5000  
-> else 0  
-> end) as "bonus_criteria"  
-> from bonus;
```

doj	name	age	department_name	salaries	bonus_criteria
2020-01-03	Madhavan	25	Field_auditor	20000	5000
2015-04-01	Suraj	22	Field_auditor	18000	5000
2011-06-03	Mangal	45	Auditor	50000	5000
2018-03-01	Shankar	37	Auditor	56000	5000
2023-05-01	Shravan	35	Field_Auditor	30000	0
2006-10-01	Subhash	37	Auditor	38000	5000
2017-04-01	Rakesh	35	Field_Auditor	10000	5000
2011-03-01	Ajay	25	Field_Auditor	23000	5000
2024-05-09	Shailesh	29	Field_Auditor	35000	0
2020-09-01	Hitesh	23	Field_Auditor	22000	5000
2010-05-01	Suresh	20	Field_Auditor	7000	5000
2022-03-01	Rakesh	18	Field_Auditor	6000	0
2019-06-01	Ajay	28	Field_Auditor	25000	5000
2020-03-01	Shailesh	25	Field_Auditor	30000	5000
2017-01-01	Hitesh	37	Field_Auditor	40000	5000
2023-09-01	Sukesh	21	Field_Auditor	12500	0
2017-06-03	Dimple	27	Team_Leader	50000	5000
2010-05-01	Seetha	50	Team_Leader	70000	5000
2012-07-01	Sunil	53	Team_Leader	65000	5000
2019-09-01	Saru	27	Auditor	50000	5000
2023-10-01	Javin	22	Field_Auditor	10000	0
2023-02-01	Somesh	24	Field_Auditor	15000	0
2023-09-01	Sandeep	21	Field_Auditor	18000	0

2020-06-01	Sangeetha	29	Auditor	38000	5000
2019-11-01	Shristi	35	Team_Leader	45000	5000
2024-03-01	Ramesh	20	Field_Auditor	11500	0
2021-07-01	Rekha	25	Auditor	25000	0
2017-03-01	Geeta	40	Team_Leader	75000	5000
2020-09-01	Sanjay	29	Field_Auditor	55000	5000
2022-02-01	Banu	28	Field_Auditor	38000	0
2023-10-01	Pravin	20	Auditor	15000	0
2023-12-01	Romesh	22	Field_Auditor	18000	0
2019-04-01	Randeep	30	Field_Auditor	36000	5000
2019-07-01	Sakshi	29	Auditor	39000	5000
2016-10-01	Shrimati	42	Team_Leader	48000	5000
2021-09-01	Anuj	40	Field_Auditor	32000	0
2021-05-01	Sajal	25	Field_Auditor	30000	0
2022-01-01	Srivatsan	22	Field_Auditor	25000	0
2023-07-01	Aman	20	Auditor	17000	0
2024-01-01	Hussain	20	Field_Auditor	20000	0
2020-01-01	Srinivasan	22	Field_Auditor	23000	5000
2023-01-01	Arun	21	Field_Auditor	17000	0
2017-06-01	Bijoy	26	Field_auditor	32000	5000
2021-12-01	Prince	27	Field_Auditor	28000	0
2022-06-01	Ravi	22	Field_Auditor	23000	0
2019-08-01	Ashraf	28	Field_Auditor	30000	5000
2020-01-01	AnandBabu	26	Field_Auditor	29000	5000
2022-04-01	Tarak	23	Field_Auditor	25000	0
2018-07-01	Anandi	27	Auditor	32000	5000
2018-06-01	Harsha	28	Auditor	35000	5000

50 rows in set (0.001 sec)



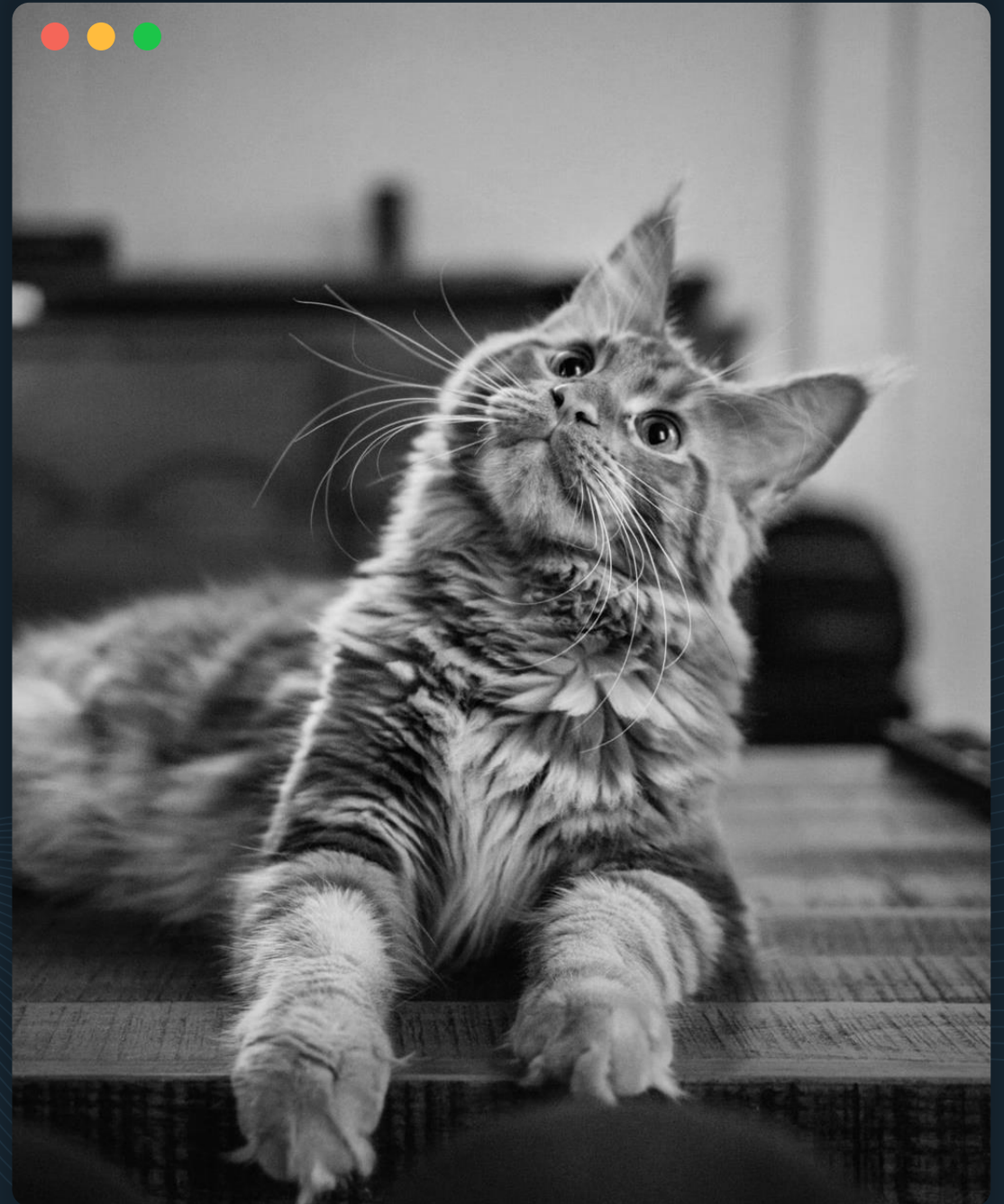
06 AFTER THAT WE WILL SEE THIS

Get Rekha's punctuality in office timings to interpret her performance.

PUNCH IN AND OUT TIME

```
MariaDB [shreya]> select in_time from bonus where in_time=(select in_time from bonus where name="Rekha");
+-----+
| in_time |
+-----+
| 10:09:00 |
+-----+
1 row in set (0.001 sec)

MariaDB [shreya]> select out_time from bonus where out_time=(select out_time from bonus where name="Rekha");
+-----+
| out_time |
+-----+
| 07:11:00 |
+-----+
1 row in set (0.001 sec)
```





07 FINALLY WILL LOOK INTO THIS

Provide the list of employees from Chennai who has scheduled contractors for today's audits (with audit list) and also create list of no of mandays used with overall expenses, to proceed payment.

THIS IS OUR TEAM

```
MariaDB [shreya]> select*from emp order by eid;
```

eid	ename	branch	audit_type
1	Aman	Chennai	Cut_Off
2	Ravi	Chennai	Lays_CFA
3	Srivatsan	Chennai	Concentrate
4	Anuj	Chennai	Cap
5	AnandKumar	Chennai	my_fitness
6	AnandBabu	Chennai	Market
7	Sajal	Chennai	CFA
8	Prince	Chennai	FG

8 rows in set (0.001 sec)

```
MariaDB [shreya]> select*from contr order by cid;
```

cid	cname	date	location	aud_type	mandays_no
11	Pawmesh	2024-07-14	Mumbai	Cut_off	7
12	Omesh	2024-07-07	Allahabad	Lays_CFA	9
13	Jetha	2024-07-15	Maharashtra	Concentrate	1
14	Yawar	2024-07-13	Srinagar	Cap	2
15	Jatin	2024-07-17	Jammu	my_fitness	3
16	Abhishek	2024-07-10	MadhyaPradesh	Market	4
17	Manish	2024-07-09	Gujarat	CFA	10
18	Ashish	2024-07-17	Pune	FG	6

8 rows in set (0.014 sec)

```
MariaDB [shreya]> select*from details;
```

contr_name	no_mandays	aud_typ	per_manday_amt
Pawmesh	7	Cut_off	1500
Omesh	9	Lays_CFA	1300
Jetha	1	Concentrate	1500
Yawar	2	Cap	1000
Jatin	3	my_fitness	1800
Abhishek	4	Market	1500
Manish	10	CFA	1600
Ashish	6	FG	1300

8 rows in set (0.013 sec)

AND THIS IS AUDIT LIST.


```
ERROR 1064 (42002): Unknown column 'cname' in 'field list'
MariaDB [shreya]> select emp.eid,emp.branch,emp.audit_type,contr.cid,contr.cname,contr.date,contr.mandays_no
-> from emp join contr
-> on emp.audit_type=contr.aud_type;
+-----+-----+-----+-----+-----+-----+-----+
| eid | branch | audit_type | cid | cname | date | mandays_no |
+-----+-----+-----+-----+-----+-----+-----+
| 3 | Chennai | Concentrate | 13 | Jetha | 2024-07-15 | 1 |
| 4 | Chennai | Cap | 14 | Yawar | 2024-07-13 | 2 |
| 5 | Chennai | my_fitness | 15 | Jatin | 2024-07-17 | 3 |
| 6 | Chennai | Market | 16 | Abhishek | 2024-07-10 | 4 |
| 8 | Chennai | FG | 18 | Ashish | 2024-07-17 | 6 |
| 1 | Chennai | Cut_Off | 11 | Pawnesh | 2024-07-14 | 7 |
| 2 | Chennai | Lays_CFA | 12 | Omesh | 2024-07-07 | 9 |
| 7 | Chennai | CFA | 17 | Manish | 2024-07-09 | 10 |
+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.001 sec)
```

```
ERROR 1064 (42002): Unknown column 'details.per_manday_amt' in 'field list'
MariaDB [shreya]> select emp.branch,emp.audit_type,emp.ename,contr.cname,contr.location,contr.mandays_no,details.per_manday_amt
-> from emp join contr
-> on emp.audit_type=contr.aud_type
-> join details
-> on contr.mandays_no=details.no_mandays;
+-----+-----+-----+-----+-----+-----+-----+
| branch | audit_type | ename | cname | location | mandays_no | per_manday_amt |
+-----+-----+-----+-----+-----+-----+-----+
| Chennai | Cut_Off | Aman | Pawnesh | Mumbai | 7 | 1500 |
| Chennai | Lays_CFA | Ravi | Omesh | Allahabad | 9 | 1300 |
| Chennai | Concentrate | Srivatsan | Jetha | Maharashtra | 1 | 1500 |
| Chennai | Cap | Anuj | Yawar | Srinagar | 2 | 1000 |
| Chennai | my_fitness | AnandKumar | Jatin | Jammu | 3 | 1800 |
| Chennai | Market | AnandBabu | Abhishek | MadhyaPradesh | 4 | 1500 |
| Chennai | CFA | Sajal | Manish | Gujarat | 10 | 1600 |
| Chennai | FG | Prince | Ashish | Pune | 6 | 1300 |
+-----+-----+-----+-----+-----+-----+-----+
8 rows in set (0.001 sec)
```



THANK YOU!

Do you have any questions?



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