

```

2
3 select j.job_title, count(a.Application_Id) from Jobs j
4 join applications a on a.job_id=j.job_id
5 group by j.job_title
6
7 --6.
8 declare @minval decimal(10,2)=75000
9 declare @maxval decimal(10,2) =95000
10 select c.company_name , j.job_title , j.job_location , j.salary from companies c
11 join jobs j on j.company_id =c.company_id
12 --where j.salary<@maxval and j.salary>@minval
13 where j.salary between @minval and @maxval
14
15 --7.
16
17 select j.Job_Id,j.Job_Title,c.company_name , a.Application_Date from jobs j
18 join Companies c on c.Company_Id=j.Company_Id
19 join Applications a on j.Job_Id=a.Job_Id
20 join Applicants ap on ap.Applicant_Id=a.Applicant_Id
21 where ap.Applicant_Id=5
22

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Results Messages

	job_title	(No column name)
1	AI Engineer	1
2	Backend Developer	1
3	Business Analyst	1
4	Cloud Engineer	1
5	Cybersecurity Analyst	1
6	Data Analyst	1
7	Frontend Developer	1
8	HR Manager	2

	company_name	job_title	job_location	salary
1	Google	Software Engineer	Chennai	75000.00
2	Facebook	Backend Developer	Pune	80000.00
3	Infosys	Cybersecurity Analyst	Chennai	85000.00
4	Wipro	HR Manager	Bangalore	90000.00
5	Microsoft	Network Engineer	Hyderabad	75000.00
6	Accenture	Cloud Engineer	Delhi	95000.00
7	Google	Software Engineer	Chennai	75000.00

```

14
15 --7.
16
17 select j.Job_Id,j.Job_Title,c.company_name , a.Application_Date from jobs j
18 join Companies c on c.Company_Id=j.Company_Id
19 join Applications a on j.Job_Id=a.Job_Id
20 join Applicants ap on ap.Applicant_Id=a.Applicant_Id
21 where ap.Applicant_Id=5
22
23 --7.
24 DECLARE @ApplicantID INT = 1;
25 SELECT j.Job_Title , c.Company_Name , a.Application_Date
26 FROM Applications a
27 JOIN Jobs j ON a.Job_Id = j.Job_Id
28 JOIN Companies c ON j.Company_Id = c.Company_Id
29 WHERE a.Applicant_Id = @ApplicantID
30 ORDER BY a.Application_Date DESC;
31

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Results Messages

	Job_Id	Job_Title	company_name	Application_Date
1	4	Backend Developer	Facebook	2024-03-12 16:20:40.000

	Job_Title	Company_Name	Application_Date
1	Frontend Developer	Amazon	2024-03-10 09:45:15.000

```

32 --8.
33 select j.Job_Id,j.Job_Title , avg(j.Salary) as average_salary from jobs j
34 where j.salary>0
35 group by j.Job_Id,j.Job_Title
36
37 --9.
38
39 select top 1 with ties c.company_id , c.company_name, j.Company_Id ,
40 count(j.job_id)as Highest_jobpost from jobs j
41 join Companies c on c.Company_Id=j.Company_Id
42 group by c.company_id , c.company_name, j.Company_Id
43 order by Highest_jobpost desc
44 select * from Applicants
45 --10.
46 ALTER TABLE applicants ADD experience INT;

```

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Results Messages

	Job_Id	Job_Title	average_salary
1	1	Software Engineer	75000.000000
2	2	Data Analyst	65000.000000
3	3	Frontend Developer	70000.000000
4	4	Backend Developer	80000.000000
5	5	HR Manager	60000.000000
6	6	Marketing Executive	55000.000000
7	7	Cybersecurity Analyst	85000.000000
8	8	HR Manager	90000.000000
9	9	Network Engineer	75000.000000
10	10	UX Designer	68000.000000
11	11	Cloud Engineer	85000.000000

	company_id	company_name	Company_Id	Highest_jobpost
1	1	Google	1	4
2	2	Microsoft	2	4

```

47
48 --10.
49 ALTER TABLE applicants ADD experience INT;
50 UPDATE applicants SET experience = 5 WHERE applicant_id = 1;
51 UPDATE applicants SET experience = 3 WHERE applicant_id = 2;
52 UPDATE applicants SET experience = 7 WHERE applicant_id = 3;
53 UPDATE applicants SET experience = 2 WHERE applicant_id = 4;
54 UPDATE applicants SET experience = 4 WHERE applicant_id = 5;
55 --10.
56 select a.* from Applicants a
57 join Applications ap on ap.Applicant_Id=a.Applicant_Id
58 join jobs j on j.Job_Id=ap.Job_Id
59 join Companies c on c.Company_Id=j.Company_Id
60 where c.location='Bangalore' and a.experience=3
61
62 --11.
63 select distinct Job_Title from jobs
64 where Salary between 700000 and 900000
65
66 --12.

```

%

Results Messages

Applicant_Id	First_Name	Last_Name	Email	Phone	Resume	experience	city
2	Priya	Singh	priya@example.com	8765432109	resume2.pdf	3	Mumbai

Job_Title
Technical Support

```

63 --12.
64 INSERT INTO jobs (company_id, job_title, job_description, job_location, salary, job_type)
65 VALUES
66 (4, 'Network Engineer', 'Manage and optimize network infrastructure.', 'Hyderabad', 72000, 'Full-time'),
67 (5, 'HR Manager', 'Oversee human resources operations.', 'Pune', 65000, 'Full-time');
68
69 select j.* from jobs j
70 left join Applications a on j.Job_Id=a.Job_Id
71 where a.Applicant_Id is null
72
73 --13.
74 select a.* from Applicants a
75 join Applications ap on ap.Applicant_Id=a.Applicant_Id
76 join jobs j on j.Job_Id=ap.Job_Id
77 join Companies c on c.Company_Id=j.Company_Id
78
79 --14.

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Results Messages

	Job_Id	Company_Id	Job_Title	Job_Description	Job_Location	Salary
1	16	1	Software Engineer	Develop and maintain software applications.	Chennai	75000.00
2	17	2	Data Analyst	Analyze data trends and insights.	Bangalore	68000.00
3	20	4	Network Engineer	Manage and optimize network infrastructure.	Hyderabad	72000.00
4	21	5	HR Manager	Oversee human resources operations.	Pune	65000.00

	Applicant_Id	First_Name	Last_Name	Email	Phone	Resume	experience	city
1	2	Priya	Singh	priya@example.com	8765432109	resume2.pdf	3	Mumbai
2	3	Amit	Kumar	amit@example.com	7654321098	resume3.pdf	7	Bangalore
3	1	Rahul	Sharma	rahul@example.com	9876543210	resume1.pdf	5	Chennai
4	5	Vikram	Patel	vikram@example.com	5432109876	resume5.pdf	4	Chennai
5	4	Neha	Verma	neha@example.com	6543210987	resume4.pdf	2	Chennai
6	6	Sneha	Reddy	sneha@example.com	4321098765	resume6.pdf	NULL	Chennai
7	7	Arjun	Das	arjun@example.com	3210987654	resume7.pdf	NULL	Chennai
8	8	Kavita	Yadav	kavita@example.com	2109876543	resume8.pdf	NULL	Chennai
9	9	Deepika	Mahesh	deepika@example.com	1098765432	resume9.pdf	NULL	Chennai

```

78 --14.
79
80
81 select c.Company_Id, c.Company_Name, count(j.job_id) as Job_count from jobs j
82 join Companies c on j.Company_Id=c.Company_Id
83 group by c.Company_Id, c.Company_Name
84
85 --15.
86 select c.company_name, j.Job_title, a.* from Applicants a
87 join Applications app on app.Applicant_Id=a.Applicant_Id
88 join jobs j on app.Job_Id=j.Job_Id
89 join Companies c on c.Company_Id=j.Company_Id
90
91 --16.

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Results Messages

	Company_Id	Company_Name	Job_count
1	1	Google	4
2	2	Microsoft	4
3	3	Amazon	2
4	4	Facebook	2
5	5	Apple	2
6	6	TCS	1
7	7	Infosys	1
8	8	Wipro	1

	company_name	Job_title	Applicant_Id	First_Name	Last_Name	Email	Phone
1	Google	Software Engineer	2	Priya	Singh	priya@example.com	8765432109
2	Microsoft	Data Analyst	3	Amit	Kumar	amit@example.com	7654321098
3	Amazon	Frontend Developer	1	Rahul	Sharma	rahul@example.com	9876543210
4	Facebook	Backend Developer	5	Vikram	Patel	vikram@example.com	5432109876
5	Apple	HR Manager	4	Neha	Verma	neha@example.com	6543210987
6	TCS	Marketing Executive	6	Sneha	Reddy	sneha@example.com	4321098765
7	Infosys	Cybersecurity Analyst	7	Arjun	Das	arjun@example.com	3210987654

Q... POORNIMA\SQLSERVER2022 (16... POORNIMA\poorn (69) CareerHub 00:00:00 25 rows

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91 --16.
92 select c.Company_Id,c.Company_Name ,j.salary from Companies c
93 join jobs j on c.Company_Id=j.Company_Id
94 where j.Salary> (select avg(Salary) from jobs)
95
96 --17.
97 ALTER TABLE applicants ADD city VARCHAR(100), state VARCHAR(100)

```

%

Results Messages

Company_Id	Company_Name	salary
3	Amazon	720000.00

```

95
96 --17.
97 ALTER TABLE applicants ADD city VARCHAR(100), state VARCHAR(100)
98 UPDATE applicants
99 SET city = 'Chennai', state = 'Tamil Nadu' WHERE applicant_id = 1;
100 UPDATE applicants
101 SET city = 'Mumbai', state = 'Maharashtra' WHERE applicant_id = 2;
102 UPDATE applicants
103 SET city = 'Bangalore', state = 'Karnataka' WHERE applicant_id = 3;
104 UPDATE applicants
105 SET city = 'Chennai', state = 'Tamil Nadu'
106 WHERE city IS NULL OR state IS NULL;
107
108 select First_Name,Last_Name , concat(city , ' ',state) as Location from Applicants
109 --18.
110 select Job_Id, Job_Type, Job_Title from Jobs
111 where Job_Title in ('AI engineer' , 'hr manager')
112
113 --19.

```

85 %

Results Messages

	First_Name	Last_Name	Location
1	Rahul	Sharma	Chennai Tamil Nadu
2	Priya	Singh	Mumbai Maharashtra
3	Amit	Kumar	Bangalore Karnataka
4	Neha	Verma	Chennai Tamil Nadu
5	Vikram	Patel	Chennai Tamil Nadu
6	Sneha	Reddy	Chennai Tamil Nadu
7	Arjun	Das	Chennai Tamil Nadu
8	Kavita	Yadav	Chennai Tamil Nadu
9	Raj	Mehta	Chennai Tamil Nadu
10	Pooja	Sharma	Chennai Tamil Nadu

	Job_Id	Job_Type	Job_Title
1	5	Full-time	HR Manager
2	8	Full-time	HR Manager
3	12	Full-time	AI Engineer
4	21	Full-time	HR Manager

```

111 where Job_title in ('AI engineer' , 'hr manager')
112
113 --19.
114 select j.job_title , a.Applicant_Id, a.First_Name from Applicants a
115 join Applications ap on ap.Applicant_Id=a.Applicant_Id
116 join Jobs j on j.Job_Id=ap.Job_Id
117
118 --20.
119 select a.* , c.* from Applicants a
120 join Applications ap on ap.Applicant_Id=a.Applicant_Id
121 join jobs j on ap.Job_Id=j.Job_Id
122 join Companies c on c.Company_Id=j.Company_Id
123 where a.experience > 2 and a.city='chennai'
124

```

85 %

Results Messages

	job_title	Applicant_Id	First_Name					
1	Software Engineer	2	Priya					
2	Data Analyst	3	Amit					
3	Frontend Developer	1	Rahul					
4	Backend Developer	5	Vikram					
5	HR Manager	4	Neha					
6	Marketing Executive	6	Sneha					
7	Cybersecurity Analyst	7	Arjun					
8	HR Manager	8	Kavita					
9	Network Engineer	9	Raj					
10	UX Designer	10	Pooja					

	Applicant_Id	First_Name	Last_Name	Email	Phone	Resume	experience	city
1	1	Rahul	Sharma	rahul@example.com	9876543210	resume1.pdf	5	Chennai
2	5	Vikram	Patel	vikram@example.com	5432109876	resume5.pdf	4	Chennai