Assignment 3

Consider the following employee table and execute the gueries based on it

1				Hal Take	Salary	Commisien	Dept	Manyerid	DOJ
221	Emp	trane	Lnome	Job Type	Saarig		125		04-Jan-1998
	1	Arun	Khan	Manager	90,000		Production		09-Jan - Sunday 0
m	2	150	Tree or	Manager	80 000		Mankeling		09-Feb-1998 Sunday 0
	3			Engineer	60 000		Production	1	08-Jan-1998
					- SEC. (1)		Sales	4	27 - Dec - 2001
	4	pheeros	PHISHIP.	Manager			Broduck	n 1	20- Mar - 2002
	5	Emma	Dutt	Engineer	The same		Account		16 - Jul - 2000
2	6	Floki	Dutt	Accounts	THE PERSON NAMED OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TO THE PERS	711111111111111111111111111111111111111	Accoun	251	01- Jul- 2016
	7	Dheeraj	Kumas	Crerk	40000		RAP	The state of the s	06 - Sep - 2014
	8	Saul	Good	Engineer	60000	12.00		919	
to do		Mou	-		30000		Sale	25.03	08- Mar - 2018
	1000	Sunny	THE STATE OF THE PARTY.		20000	10000	The second second	Section 1	31 - Mar - 2001
					35000		R&E	8	17-Oct-2017
1		Bobby		A STATE OF THE STA	- 00D		Markel	mg 2	11- Jan -2013
-	121	Mam/ 31	Man I	Salesman	113 000	-		1000	
			0.						THE RESERVE

- 1. Show f_name, I_name and job_type from employees.
- INSERT INTO EMPLOYEE (emp_id, f_name, l_name, job_type, salary, commission, dept, manager_id, doj) VALUES
- (1, 'Arun', 'Khan', 'Manager', 90000, NULL, 'Production', NULL, '1998-01-04'),
- (2, 'Barun', 'Kumar', 'Manager', 80000, NULL, 'Marketing', NULL, '1998-02-09'),
- (3, 'Chitra', 'Kapoor', 'Engineer', 60000, NULL, 'Production', 1, '1998-01-08'),
- (4, 'Dheeraj', 'Mishra', 'Manager', 75000, NULL, 'Sales', NULL, '2001-12-27'),
- (5, 'Emma', 'Dutta', 'Engineer', 55000, NULL, 'Production', 1, '2002-03-20'),
- (6, 'Floki', 'Dutta', 'Accounts', 70000, NULL, 'Accounts', NULL, '2000-07-16'),
- (7, 'Dheeraj', 'Kumar', 'Clerk', 40000, NULL, 'Accounts', 6, '2016-07-01'),
- (8, 'Saul', 'Good', 'Engineer', 60000, NULL, 'R&D', NULL, '2014-09-06'),
- (9, 'Mou', 'Bhat', 'Clerk', 30000, NULL, 'Sales', 4, '2018-03-08'),
- (10, 'Sunny', 'Deol', 'Salesman', 20000, 10000, 'Marketing', 2, '2001-03-31'),
- (11, 'Bobby', 'Deol', 'Engineer', 35000, NULL, 'R&D', 8, '2017-10-17'),
- (12, 'Amir', 'Khan', 'Salesmen', 15000, 5000, 'Marketing', 2, '2013-01-11');

select f name, I name, job type from EMPLOYEE;

			_
	f_name	I_name	job_type
•	Arun	Khan	Manager
	Barun	Kumar	Manager
	Chitra	Kapoor	Engineer
	Dheeraj	Mishra	Manager
	Emma	Dutta	Engineer
	Floki	Dutta	Accounts
	Dheeraj	Kumar	Clerk
	Saul	Good	Engineer
	Mou	Bhat	Clerk
	Sunny	Deol	Salesman
	Bobby	Deol	Engineer
	Amir	Khan	Salesmen

2. Show employee details in the following fashion:

Employee details

Arun is a manager

→select f_name, job_type from EMPLOYEE where f_name = 'Arun' and job_type = 'Manager';



3. Show the monthly salary details in the following fashion Monthly Salary Details Arun's monthly salary is Rs. 90000 select f_name, job_type, salary from EMPLOYEE

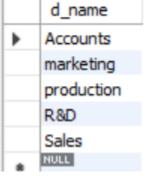
where emp id = 1;



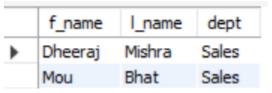
Consider the Department table to answer the queries

d_name	d_loc	HOD_id
Sales	Kol	4
Accounts	Delhi	6
Production	Kol	1
Marketing	Kol	2
R&D	Marketing	8

4. Show the different department names from department table select d_name from department;



 Show the employee names who works in 'Sales' select f_name, I_name, dept from EMPLOYEE where dept = 'sales';



6. Show the employee names who gets salary of more than 50000 per month

select f_name, l_name, salary from EMPLOYEE where salary>50000;

	f_name	I_name	salary
•	Arun	Khan	90000
	Barun	Kumar	80000
	Chitra	Kapoor	60000
	Dheeraj	Mishra	75000
	Emma	Dutta	55000
	Floki	Dutta	70000
	Saul	Good	60000

7. Show the details of the employee whose manager id is not 1 select * from EMPLOYEE where manager_id!=1;

	emp_id	f_name	I_name	job_type	salary	dept	commission	manager_id	doj
•	7	Dheeraj	Kumar	Clerk	40000	Accounts	NULL	6	2016-07-01
	9	Mou	Bhat	Clerk	30000	Sales	NULL	4	2018-03-08
	10	Sunny	Deol	Salesman	20000	Marketing	10000	2	2001-03-31
	11	Bobby	Deol	Engineer	35000	R&D	NULL	8	2017-10-17
	12	Amir	Khan	Salesmen	15000	Marketing	5000	2	2013-01-11
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

8. Show the employee details whose salary ranges between 40000 and 70000 select f_name, I_name, salary from EMPLOYEE where salary>40000 AND salary<70000;

	f_name	I_name	salary
•	Chitra	Kapoor	60000
	Emma	Dutta	55000
	Saul	Good	60000

9. Show the details of the employees who works under the manager having id 1, 6 and 8 select * from EMPLOYEE

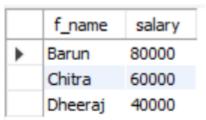
where manager_id=1 or manager_id= 6 or manager_id=8;

	emp_id	f_name	I_name	job_type	salary	dept	commission	manager_id	doj
•	3	Chitra	Kapoor	Engineer	60000	Production	NULL	1	1998-01-08
	5	Emma	Dutta	Engineer	55000	Production	NULL	1	2002-03-20
	7	Dheeraj	Kumar	Clerk	40000	Accounts	NULL	6	2016-07-01
	11	Bobby	Deol	Engineer	35000	R&D	NULL	8	2017-10-17
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

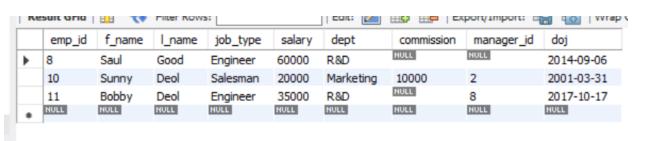
10. Select the f_name and salary of those employees whose last name starts with 'K' select f_name, salary from EMPLOYEE where I name like "k%";

	f_name	salary
•	Arun	90000
	Barun	80000
	Chitra	60000
	Dheeraj	40000
	Amir	15000

11. Select the f_name and salary of those employees whose last name starts with 'K' and ends with 'R' select f_name, salary from EMPLOYEE where I name like "K%" AND I name like "%R";



12. Show the details of those employees where 3rd letter of I_name is 'o' select * from EMPLOYEE where I name like " o%";



13. Select the details of those employees who works as an engineer with monthly salary more than 50000 select * from EMPLOYEE where job type = "Engineer" AND salary > 50000;

	emp_id	f_name	I_name	job_type	salary	dept	commission	manager_id	doj
•	3	Chitra	Kapoor	Engineer	60000	Production	NULL	1	1998-01-08
	5	Emma	Dutta	Engineer	55000	Production	NULL	1	2002-03-20
	8	Saul	Good	Engineer	60000	R&D	NULL	NULL	2014-09-06
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

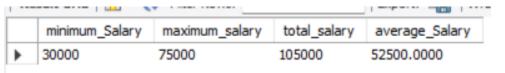
14. Select the employees whose department is 'Production' or monthly salary is more than 60000 per month. select * from EMPLOYEE

where dept = "production" or salary>60000;

	emp_id	f_name	I_name	job_type	salary	dept	commission	manager_id	doj
•	1	Arun	Khan	Manager	90000	Production	NULL	HULL	1998-01-04
	2	Barun	Kumar	Manager	80000	Marketing	NULL	NULL	1998-02-09
	3	Chitra	Kapoor	Engineer	60000	Production	NULL	1	1998-01-08
	4	Dheeraj	Mishra	Manager	75000	Sales	NULL	NULL	2001-12-27
	5	Emma	Dutta	Engineer	55000	Production	NULL	1	2002-03-20
	6	Floki	Dutta	Accounts	70000	Accounts	NULL	NULL	2000-07-16
	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

15. Find the minimum salary, maximum salary, total salary, average salary of the employees who work in 'Sales' department

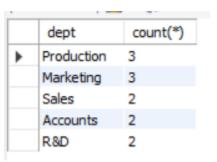
select min(salary) as minimum_Salary, max(salary) as maximum_salary, sum(salary) as total_salary, avg(salary) as average_Salary from EMPLOYEE where dept = 'Sales';



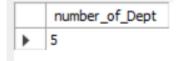
16. Find the employee I_name that is first and f_name that is last if they are arranged in an order select I_name from EMPLOYEE order by I_name ASC limit 1; select f_name from EMPLOYEE order by f_name DESC limit 1;



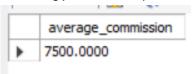
17. Find the number of employees working in each department select dept, count(*) from EMPLOYEE GROUP BY dept;



18. Find the number of departments from employee table select count(distinct dept) as number_of_Dept from EMPLOYEE;



19. Find the average commission of the employees. select avg(commission) as average_commission from EMPLOYEE;



20. Find the average salaries of the employees department wise select dept, avg(salary) as average_salary from EMPLOYEE GROUP BY dept;

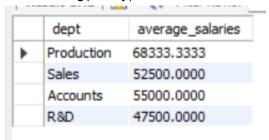
			-
	dept	average_salary	
•	Production	68333.3333	
	Marketing	38333.3333	
	Sales	52500.0000	
	Accounts	55000.0000	
	R&D	47500.0000	

21. Find the sum of salary of different job_type according to different departments select job_type, dept, sum(salary) as sum_of_Salary from EMPLOYEE

GR	OUP BY dep	ot, job_type;	
	job_type	dept	sum_of_Salary
١	Manager	Production	90000
	Manager	Marketing	80000
	Engineer	Production	115000
	Manager	Sales	75000
	Accounts	Accounts	70000
	Clerk	Accounts	40000
	Engineer	R&D	95000
	Clerk	Sales	30000
	Salesman	Marketing	20000
	Salesmen	Marketing	15000

22. Find the department name and average salaries of those departments whose average salary is greater than 40000 select dept, avg(salary) as average_salaries from EMPLOYEE group by dept

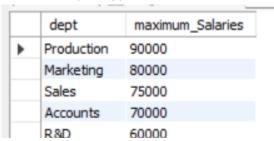
HAVING avg(salary) > 40000;



23. Find the department name and maximum salaries of those departments whose maximum salary is greater than 55000 select dept, max(salary) as maximum_Salaries from EMPLOYEE

GROUP BY dept

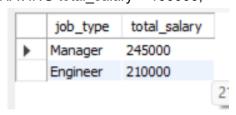
HAVING max(salary) > 55000;



24. Display the job_type and total monthly salary for each job_type where total payroll is exceeding 100000 select job_type, sum(salary) as total_salary from EMPLOYEE

GROUP BY job type

HAVING total_salary > 100000;



25. Display the name of the department having maximum average salary select dept, avg(salary) as average_Salary FROM EMPLOYEE GROUP BY dept

ORDER BY average_Salary DESC

limit 1;

dept average_Salary

Production 68333.3333