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1 • USE d1;
2 • Describe table payment;
3 • CREATE table faculty(F_id int primary key,Deptname varchar(10),ename varchar(20),Salary int, job varchar(40));
4 • insert into faculty(F_id,Deptname,ename,Salary,job) values (1,"CSE","Ajay",100000,"HOD");
5 • insert into faculty(F_id,Deptname,ename,Salary,job) values (2,"CSE","Anu",60000,"Teaching");
6 • insert into faculty(F_id,Deptname,ename,Salary,job) values (3,"CSE Apex","Rohan",105000,"HOD");
7 • insert into faculty(F_id,Deptname,ename,Salary,job) values (4,"CSE Apex","Param",70000,"Teaching");
8 • insert into faculty(F_id,Deptname,ename,Salary,job) values (5,"ECE","Aman",45000,"Markiting");
9 • insert into faculty(F_id,Deptname,ename,Salary,job) values (6,"ECE","Varun",90000,"HOD");
11 • Create table acc_detail(E_id int primary key, Deptname varchar(10), sal_status varchar(10));
12 • Insert into acc_detail(E_id,Deptname,sal_status)values(1,"CSE","Paid");
13 • Insert into acc_detail(E_id,Deptname,sal_status)values(2,"CSE","Pending");
14 • Insert into acc_detail(E_id,Deptname,sal_status)values(3,"CSE Apex","Pending");
15 • Insert into acc_detail(E_id,Deptname,sal_status)values(4,"CSE Apex","Paid");
16 • Insert into acc_detail(E_id,Deptname,sal_status)values(5,"ECE","Paid");
17 • Insert into acc_detail(E_id,Deptname,sal_status)values(6,"ECE","Paid");

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Output :

Action Output		
#	Action	Message
✓ 1	21:27:05 USE d1	0 row(s) affected
✓ 2	21:27:14 Create table acc_detail(E_id int primary key, Deptname varchar(10), sal_status varchar(10))	0 row(s) affected
✓ 3	21:28:55 Insert into acc_detail(E_id,Deptname,sal_status)values(1,"CSE","Paid")	1 row(s) affected
✓ 4	21:30:16 Insert into acc_detail(E_id,Deptname,sal_status)values(2,"CSE","Pending")	1 row(s) affected
✓ 5	21:30:19 Insert into acc_detail(E_id,Deptname,sal_status)values(3,"CSE Apex","Pending")	1 row(s) affected
✓ 6	21:30:21 Insert into acc_detail(E_id,Deptname,sal_status)values(4,"CSE Apex","Paid")	1 row(s) affected
✓ 7	21:30:25 Insert into acc_detail(E_id,Deptname,sal_status)values(5,"ECE","Paid")	1 row(s) affected
✓ 8	21:30:27 Insert into acc_detail(E_id,Deptname,sal_status)values(6,"ECE","Paid")	1 row(s) affected

18 • `SELECT * FROM faculty INNER JOIN acc_detail ON faculty.F_id = acc_detail.E_id;`

Result Grid		Filter Rows:	Export:	Wrap Cell Content:			
F_id	Deptname	ename	Salary	job	E_id	Deptname	sal_status
1	CSE	Ajay	100000	HOD	1	CSE	Paid
2	CSE	Anu	60000	Teaching	2	CSE	Pending
3	CSE Apex	Rohan	105000	HOD	3	CSE Apex	Pending
4	CSE Apex	Param	70000	Teaching	4	CSE Apex	Paid
5	ECE	Aman	45000	Markiting	5	ECE	Paid
6	ECE	Varun	90000	HOD	6	ECE	Paid

23 • `SELECT job,AVG(Salary) FROM faculty GROUP BY job;`

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
job	AVG(Salary)			
HOD	98333.3333			
Teaching	65000.0000			
Markiting	45000.0000			

24 • `SELECT job,AVG(Salary) FROM faculty GROUP BY job Having AVG(Salary)>60000;`

Result Grid		Filter Rows:	Export:	Wrap Cell Content:
job	AVG(Salary)			
HOD	98333.3333			
Teaching	65000.0000			

20 • `SELECT * FROM faculty LEFT JOIN acc_detail ON faculty.F_id=acc_detail.E_id;`

Result Grid							
F_id	Deptname	ename	Salary	job	E_id	Deptname	sal_status
1	CSE	Ajay	100000	HOD	1	CSE	Paid
2	CSE	Anu	60000	Teaching	2	CSE	Pending
3	CSE Apex	Rohan	105000	HOD	3	CSE Apex	Pending
4	CSE Apex	Param	70000	Teaching	4	CSE Apex	Paid
5	ECE	Aman	45000	Marketing	5	ECE	Paid
6	ECE	Varun	90000	HOD	6	ECE	Paid

19 • `SELECT * FROM faculty NATURAL JOIN acc_detail;`

Result Grid						
Deptname	F_id	ename	Salary	job	E_id	sal_status
CSE	2	Anu	60000	Teaching	1	Paid
CSE	1	Ajay	100000	HOD	1	Paid
CSE	2	Anu	60000	Teaching	2	Pending
CSE	1	Ajay	100000	HOD	2	Pending
CSE Apex	4	Param	70000	Teaching	3	Pending
CSE Apex	3	Rohan	105000	HOD	3	Pending
CSE Apex	4	Param	70000	Teaching	4	Paid
CSE Apex	3	Rohan	105000	HOD	4	Paid
ECE	6	Varun	90000	HOD	5	Paid
ECE	5	Aman	45000	Marketing	5	Paid
ECE	6	Varun	90000	HOD	6	Paid
ECE	5	Aman	45000	Marketing	6	Paid

25 • `SELECT * FROM faculty WHERE job IN ("HOD", "Marketing");`

Result Grid				
F_id	Deptname	ename	Salary	job
1	CSE	Ajay	100000	HOD
3	CSE Apex	Rohan	105000	HOD
5	ECE	Aman	45000	Marketing
6	ECE	Varun	90000	HOD
NULL	NULL	NULL	NULL	NULL

21 • `SELECT * FROM faculty RIGHT JOIN acc_detail ON faculty.F_id=acc_detail.E_id;`

Result Grid							
F_id	Deptname	ename	Salary	job	E_id	Deptname	sal_status
1	CSE	Ajay	100000	HOD	1	CSE	Paid
2	CSE	Anu	60000	Teaching	2	CSE	Pending
3	CSE Apex	Rohan	105000	HOD	3	CSE Apex	Pending
4	CSE Apex	Param	70000	Teaching	4	CSE Apex	Paid
5	ECE	Aman	45000	Marketing	5	ECE	Paid
6	ECE	Varun	90000	HOD	6	ECE	Paid

22 • **SELECT * FROM faculty CROSS JOIN acc_detail;**

Result Grid					Filter Rows:	Export:		Wrap Cell Content:
F_id	Deptname	ename	Salary	job	E_id	Deptname	sal_status	
6	ECE	Varun	90000	HOD	1	CSE	Paid	
5	ECE	Aman	45000	Markiting	1	CSE	Paid	
4	CSE Apex	Param	70000	Teaching	1	CSE	Paid	
3	CSE Apex	Rohan	105000	HOD	1	CSE	Paid	
2	CSE	Anu	60000	Teaching	1	CSE	Paid	
1	CSE	Ajay	100000	HOD	1	CSE	Paid	
6	ECE	Varun	90000	HOD	2	CSE	Pending	
5	ECE	Aman	45000	Markiting	2	CSE	Pending	
4	CSE Apex	Param	70000	Teaching	2	CSE	Pending	
3	CSE Apex	Rohan	105000	HOD	2	CSE	Pending	
2	CSE	Anu	60000	Teaching	2	CSE	Pending	
1	CSE	Ajay	100000	HOD	2	CSE	Pending	
6	ECE	Varun	90000	HOD	3	CSE Apex	Pending	
5	ECE	Aman	45000	Markiting	3	CSE Apex	Pending	
4	CSE Apex	Param	70000	Teaching	3	CSE Apex	Pending	
3	CSE Apex	Rohan	105000	HOD	3	CSE Apex	Pending	
2	CSE	Anu	60000	Teaching	3	CSE Apex	Pending	
1	CSE	Ajay	100000	HOD	3	CSE Apex	Pending	
6	ECE	Varun	90000	HOD	4	CSE Apex	Paid	
5	ECE	Aman	45000	Markiting	4	CSE Apex	Paid	
4	CSE Apex	Param	70000	Teaching	4	CSE Apex	Paid	
3	CSE Apex	Rohan	105000	HOD	4	CSE Apex	Paid	
2	CSE	Anu	60000	Teaching	4	CSE Apex	Paid	
1	CSE	Ajay	100000	HOD	4	CSE Apex	Paid	
6	ECE	Varun	90000	HOD	5	ECE	Paid	
5	ECE	Aman	45000	Markiting	5	ECE	Paid	
4	CSE Apex	Param	70000	Teaching	5	ECE	Paid	
3	CSE Apex	Rohan	105000	HOD	5	ECE	Paid	
2	CSE	Anu	60000	Teaching	5	ECE	Paid	
1	CSE	Ajay	100000	HOD	5	ECE	Paid	
6	ECE	Varun	90000	HOD	6	ECE	Paid	
5	ECE	Aman	45000	Markiting	6	ECE	Paid	
4	CSE Apex	Param	70000	Teaching	6	ECE	Paid	
3	CSE Apex	Rohan	105000	HOD	6	ECE	Paid	
2	CSE	Anu	60000	Teaching	6	ECE	Paid	
1	CSE	Ajay	100000	HOD	6	ECE	Paid	

26 • SELECT * from faculty where job not in ("HOD");

Result Grid					Filter Rows:	Edit:	Print	Export
F_id	Deptname	ename	Salary	job				
2	CSE	Anu	60000	Teaching				
4	CSE Apex	Param	70000	Teaching				
5	ECE	Aman	45000	Markiting				
NULL	NULL	NULL	NULL	NULL				