

MODULE: 5 (DATABASE) [TASK]

	<div>1. Create Table Name : Student and Exam</div>																												
	<table><tr><th>Rollno</th><th>Name</th><th>Branch</th></tr><tr><td>1</td><td>Jay</td><td>Computer Science</td></tr><tr><td>2</td><td>Suhani</td><td>Electronic and Com</td></tr><tr><td>3</td><td>Kriti</td><td>Electronic and Com</td></tr></table>	Rollno	Name	Branch	1	Jay	Computer Science	2	Suhani	Electronic and Com	3	Kriti	Electronic and Com																
Rollno	Name	Branch																											
1	Jay	Computer Science																											
2	Suhani	Electronic and Com																											
3	Kriti	Electronic and Com																											
	<div>CREATE TABLE Student (Rollno INT PRIMARY KEY NOT NULL, Name VARCHAR(25) NOT NULL, Branch VARCHAR(25) NOT NULL); INSERT INTO Student (Rollno, Name, Branch) VALUES (1, 'Jay', 'Computer Science'), (2, 'Suhani', 'Electronic and Com'), (3, 'Kriti', 'Electronic and Com');</div>																												
	<table><tr><th>Rollno</th><th>S_code</th><th>Marks</th><th>P_code</th></tr><tr><td>1</td><td>CS11</td><td>50</td><td>CS</td></tr><tr><td>1</td><td>CS12</td><td>60</td><td>CS</td></tr><tr><td>2</td><td>EC101</td><td>66</td><td>EC</td></tr><tr><td>2</td><td>EC102</td><td>70</td><td>EC</td></tr><tr><td>3</td><td>EC101</td><td>45</td><td>EC</td></tr><tr><td>3</td><td>EC102</td><td>50</td><td>EC</td></tr></table>	Rollno	S_code	Marks	P_code	1	CS11	50	CS	1	CS12	60	CS	2	EC101	66	EC	2	EC102	70	EC	3	EC101	45	EC	3	EC102	50	EC
Rollno	S_code	Marks	P_code																										
1	CS11	50	CS																										
1	CS12	60	CS																										
2	EC101	66	EC																										
2	EC102	70	EC																										
3	EC101	45	EC																										
3	EC102	50	EC																										
	<div>CREATE TABLE Exam (Rollno INT NOT NULL, S_code VARCHAR(255) NOT NULL, Marks INT NOT NULL, P_code VARCHAR(255) NOT NULL, FOREIGN KEY (Rollno) REFERENCES Student(Rollno)); INSERT INTO Exam (Rollno, S_code, Marks, P_code) VALUES (1, 'CS11', 50, 'CS'), (1, 'CS12', 60, 'CS'), (2, 'EC101', 66, 'EC'), (2, 'EC102', 70, 'EC'), (3, 'EC101', 45, 'EC'), (3, 'EC102', 50, 'EC');</div>																												
	<div>2. Create table given below</div>																												

FristName	LastName	Address	City	Age
Mickey	Mouse	123 Fantasy Way	Anaheim	73
Bat	Man	321 Cavern Ave	Gotham	54
Wonder	Woman	987 Truth Way	Paradise	39
Donald	Duck	555 Quack Street	Mallard	65
Bugs	Bunny	567 Carrot Street	Rascal	58
Wiley	Coyote	999 Acme Way	Canyon	61
Cat	Woman	234 Purrfect Street	Hairball	32
Tweety	Bird	543	Itotaw	28

CREATE TABLE employee (
First Name VARCHAR(255),
Last Name VARCHAR(255),
Address VARCHAR(255),
City VARCHAR(255),
Age INT
);

INSERT INTO employee ("First Name", "Last Name", Address, City, Age) VALUES
('Mickey', 'Mouse', '123 Fantasy Way', 'Anaheim', 73),
('Bat', 'Man', '321 Cavern Ave', 'Gotham', 54),
('Wonder', 'Woman', '987 Truth Way', 'Paradise', 39),
('Donald', 'Duck', '555 Quack Street', 'Mallard', 65),
('Bugs', 'Bunny', '567 Carrot Street', 'Rascal', 58),
('Wiley', 'Coyote', '999 Acme Way', 'Canyon', 61),
('Cat', 'Woman', '234 Purrfect Street', 'Hairball', 32),
('Tweety', 'Bird', '543', 'Itotitaw', 28);

3. Create table given below: Employee and Incentive

Employee_id	First_name	Last_name	Salary	Joining_date	Department
1	John	Abraham	1000000	2013-01-13 12:00:00	Banking
2	Michael	Clarke	800000	2013-01-13 12:00:00	Insurance
3	Roy	Thomas	700000	2013-02-13 12:00:00	Banking
4	Tom	Jose	600000	2013-02-13 12:00:00	Insurance
5	Jerry	Pinto	650000	2013-02-13 12:00:00	Insurance
6	Philip	Mathew	750000	2013-01-13 12:00:00	Services
7	TestName1	123	650000	2013-01-13 12:00:00	Services
8	TestName2	Lname%	600000	2013-02-13 12:00:00	Insurance

CREATE TABLE Employee2 (
Employee_id int,
First_Name VARCHAR(25),
Last_Name VARCHAR(25),
Salary int,
Joining_date DATETIME,
Department VARCHAR(25),
);

INSERT INTO Employee (Employee_id, First_name, Last_name, Salary, Joining_dat, Department)
VALUES
(1, 'John', 'Abraham', 1000000, '2013-01-01 12:00:00', 'Banking'),
(2, 'Michael', 'Clarke', 800000, '2013-01-01 12:00:00', 'Insurance'),
(3, 'Roy', 'Thomas', 700000, '2013-02-01 12:00:00', 'Banking'),

	(4, 'Tom', 'Jose', 600000, '2013-02-01 12:00:00', 'Insurance'), (5, 'Jerry', 'Pinto', 650000, '2013-02-01 12:00:00', 'Insurance'), (6, 'Philip', 'Mathew', 750000, '2013-01-01 12:00:00', 'Services'), (7, 'TestNamel', '123', 650000, '2013-01-01 12:00:00', 'Services'), (8,'TestName2','Lname%',600000,'2013-02-0112:00:00', 'Insurance');																		
	<table><tr><th>Employee_ref_id</th><th>Incentive_date</th><th>Incentive_amount</th></tr><tr><td>1</td><td>2013-02-01</td><td>5000</td></tr><tr><td>2</td><td>2013-02-01</td><td>3000</td></tr><tr><td>3</td><td>2013-02-01</td><td>4000</td></tr><tr><td>1</td><td>2013-01-01</td><td>4500</td></tr><tr><td>2</td><td>2013-01-01</td><td>3500</td></tr></table>	Employee_ref_id	Incentive_date	Incentive_amount	1	2013-02-01	5000	2	2013-02-01	3000	3	2013-02-01	4000	1	2013-01-01	4500	2	2013-01-01	3500
Employee_ref_id	Incentive_date	Incentive_amount																	
1	2013-02-01	5000																	
2	2013-02-01	3000																	
3	2013-02-01	4000																	
1	2013-01-01	4500																	
2	2013-01-01	3500																	
	<pre>CREATE TABLE Incentive (Employee_ref_id INT, Incentive_date DATE, Incentive_amount INT); INSERT INTO Incentive (Employee_ref_id, Incentive_date, Incentive_amount) VALUES (1, '2013-02-01', 5000), (2, '2013-02-01', 3000), (3, '2013-02-01', 4000), (1, '2013-01-01', 4500), (2, '2013-01-01', 3500);</pre>																		
A.	Get First_Name from employee table using Tom name “Employee Name”.																		
	<table><tr><th>First_name</th></tr><tr><td>Tom</td></tr></table>	First_name	Tom																
First_name																			
Tom																			
	<pre>SELECT * FROM employee2 WHERE First_name='Tom';</pre>																		
B.	Get FIRST_NAME, Joining Date, and Salary from employee table.																		

	<table><tr><th>First_name</th><th>Joining_date</th><th>Salary</th></tr><tr><td>John</td><td>2013-01-13 12:00:00</td><td>1000000</td></tr><tr><td>Michael</td><td>2013-01-13 12:00:00</td><td>800000</td></tr><tr><td>Roy</td><td>2013-02-13 12:00:00</td><td>700000</td></tr><tr><td>Tom</td><td>2013-02-13 12:00:00</td><td>600000</td></tr><tr><td>Jerry</td><td>2013-02-13 12:00:00</td><td>650000</td></tr><tr><td>Philip</td><td>2013-01-13 12:00:00</td><td>750000</td></tr><tr><td>TestName1</td><td>2013-01-13 12:00:00</td><td>650000</td></tr><tr><td>TestName2</td><td>2013-02-13 12:00:00</td><td>600000</td></tr></table>	First_name	Joining_date	Salary	John	2013-01-13 12:00:00	1000000	Michael	2013-01-13 12:00:00	800000	Roy	2013-02-13 12:00:00	700000	Tom	2013-02-13 12:00:00	600000	Jerry	2013-02-13 12:00:00	650000	Philip	2013-01-13 12:00:00	750000	TestName1	2013-01-13 12:00:00	650000	TestName2	2013-02-13 12:00:00	600000
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TestName1	2013-01-13 12:00:00	650000																										
TestName2	2013-02-13 12:00:00	600000																										
	<div>SELECT First_name,Joining_date,Salary from employee2;</div>																											
C.	<div>Get all employee details from the employee table order by First_Name Ascending and Salary descending?</div>																											
	<div><div>First_name</div><div>1</div><div>Jerry</div><div>John</div><div>Michael</div><div>Philip</div><div>Roy</div><div>TestName2</div><div>TestName1</div><div>Tom</div></div>																											
	<div>SELECT * FROM employee2 ORDER BY First_name ASC;</div>																											
	<div><div>Salary</div><div>1</div><div>1000000</div><div>800000</div><div>750000</div><div>700000</div><div>650000</div><div>650000</div><div>600000</div><div>600000</div></div>																											
	<div>SELECT * FROM employee2 ORDER BY Salary DESC;</div>																											

D.	Get employee details from employee table whose first name contains 'J'.																		
	<table><tr><th>Employee_id</th><th>First_name</th><th>Last_name</th><th>Salary</th><th>Joining_date</th><th>Department</th></tr><tr><td>1</td><td>John</td><td>Abraham</td><td>1000000</td><td>2013-01-13 12:00:00</td><td>Banking</td></tr><tr><td>5</td><td>Jerry</td><td>Pinto</td><td>650000</td><td>2013-02-13 12:00:00</td><td>Insurance</td></tr></table>	Employee_id	First_name	Last_name	Salary	Joining_date	Department	1	John	Abraham	1000000	2013-01-13 12:00:00	Banking	5	Jerry	Pinto	650000	2013-02-13 12:00:00	Insurance
Employee_id	First_name	Last_name	Salary	Joining_date	Department														
1	John	Abraham	1000000	2013-01-13 12:00:00	Banking														
5	Jerry	Pinto	650000	2013-02-13 12:00:00	Insurance														
	SELECT * FROM employee2 WHERE First_name LIKE 'J%';																		
E.	Get department wise maximum salary from employee table order by salary ascending?																		
	<table><tr><th>Department</th><th>Max_Salary</th><th>▲ 1</th></tr><tr><td>Services</td><td>750000</td><td></td></tr><tr><td>Insurance</td><td>800000</td><td></td></tr><tr><td>Banking</td><td>1000000</td><td></td></tr></table>	Department	Max_Salary	▲ 1	Services	750000		Insurance	800000		Banking	1000000							
Department	Max_Salary	▲ 1																	
Services	750000																		
Insurance	800000																		
Banking	1000000																		
	SELECT Department, MAX (Salary) AS Max_Salary FROM employee2 GROUP BY Department ORDER BY Max_Salary ASC;																		
F.	Select first_name, incentive amount from employee and incentives table for those employees who have incentives and incentive amount greater than 3000																		
	<table><tr><th>First_name</th><th>Incentive_amount</th></tr><tr><td>John</td><td>5000</td></tr><tr><td>John</td><td>4500</td></tr><tr><td>Michael</td><td>3500</td></tr><tr><td>Roy</td><td>4000</td></tr></table>	First_name	Incentive_amount	John	5000	John	4500	Michael	3500	Roy	4000								
First_name	Incentive_amount																		
John	5000																		
John	4500																		
Michael	3500																		
Roy	4000																		
	SELECT employee2.First_name,incentive.Incentive_amount FROM employee2 JOIN incentive ON employee2. Employee_id=incentive.Employee_ref_id WHERE incentive.Incentive_amount>3000;																		
G.	Create After Insert trigger on Employee table which insert records in view table																		
	create TRIGGER AfterinsertEmployee After INSERT ON Employee for each ROW BEGIN INSERT INTO viewtable (Employee_id,First_name,Last_name,Salary,Joining_date,Department) VALUES (new.Employee_id,new.First_name,new.Last_name,new.salary,new.Joining_Date,new.Department) END;																		

	4. Create table given below: Salesperson and Customer																																			
	<table><tr><th>PK_SNo</th><th>SNAME</th><th>CITY</th><th>COMM</th></tr><tr><td>1001</td><td>Peel</td><td>London</td><td>0.12</td></tr><tr><td>1002</td><td>Serres</td><td>San Jose</td><td>0.13</td></tr><tr><td>1003</td><td>Axelrod</td><td>New York</td><td>0.1</td></tr><tr><td>1004</td><td>Motika</td><td>London</td><td>0.11</td></tr><tr><td>1007</td><td>Rafkin</td><td>Barcelona</td><td>0.15</td></tr></table>	PK_SNo	SNAME	CITY	COMM	1001	Peel	London	0.12	1002	Serres	San Jose	0.13	1003	Axelrod	New York	0.1	1004	Motika	London	0.11	1007	Rafkin	Barcelona	0.15											
PK_SNo	SNAME	CITY	COMM																																	
1001	Peel	London	0.12																																	
1002	Serres	San Jose	0.13																																	
1003	Axelrod	New York	0.1																																	
1004	Motika	London	0.11																																	
1007	Rafkin	Barcelona	0.15																																	
	CREATE TABLE Salesperson (PK_SNo int,SNAME varchar(20), CITY Varchar(20), COMM float, PRIMARY KEY(PK_SNo))																																			
	INSERT INTO salesperson VALUES(1001,'Peel','London','0.12'); INSERT INTO salesperson VALUES(1002,'Serres','San Jose','0.13'); INSERT INTO salesperson VALUES(1004,'Motika','London','0.11'); INSERT INTO salesperson VALUES(1007,'Rafkin','Barcelona','0.15'); INSERT INTO salesperson VALUES(1003,'Axelrod','New York','0.1');																																			
	<table><tr><th>CNM</th><th>CNAME</th><th>CITY</th><th>RATING</th><th>FK_SNo</th></tr><tr><td>201</td><td>Hoffman</td><td>London</td><td>100</td><td>1001</td></tr><tr><td>202</td><td>Giovanne</td><td>Roe</td><td>200</td><td>1003</td></tr><tr><td>203</td><td>Liu</td><td>San josh</td><td>300</td><td>1002</td></tr><tr><td>204</td><td>Grass</td><td>Barcelona</td><td>100</td><td>1002</td></tr><tr><td>206</td><td>Clemens</td><td>London</td><td>300</td><td>1007</td></tr><tr><td>207</td><td>Pereira</td><td>Roe</td><td>100</td><td>1004</td></tr></table>	CNM	CNAME	CITY	RATING	FK_SNo	201	Hoffman	London	100	1001	202	Giovanne	Roe	200	1003	203	Liu	San josh	300	1002	204	Grass	Barcelona	100	1002	206	Clemens	London	300	1007	207	Pereira	Roe	100	1004
CNM	CNAME	CITY	RATING	FK_SNo																																
201	Hoffman	London	100	1001																																
202	Giovanne	Roe	200	1003																																
203	Liu	San josh	300	1002																																
204	Grass	Barcelona	100	1002																																
206	Clemens	London	300	1007																																
207	Pereira	Roe	100	1004																																
	CREATE TABLE customer (CNM INT, CNAME varchar(20), CITY varchar(20), RATING INT, FK_SNo int, PRIMARY KEY(CNM), FOREIGN KEY(FK_SNo) REFERENCES salesperson(PK_SNo)); INSERT INTO customer VALUES(201,'Hoffman','London','100','1001'); INSERT INTO customer VALUES(202,'Giovanne','Roe','200','1003'); INSERT INTO customer VALUES(203,'Liu','San josh','300','1002'); INSERT INTO customer VALUES(204,'Grass','Barcelona','100','1002'); INSERT INTO customer VALUES(206,'Clemens','London','300','1007'); INSERT INTO customer VALUES(207,'Pereira','Roe','100','1004');																																			
	A. All orders for more than \$1000.																																			
	SELECT * FROM SALSEPERSON WHERE order=1000;																																			

B.	Names and cities of all salespeople in London with commission above 0.12																								
	SELECT name, city FROM salespeople WHERE city = 'London' AND commission > 0.12;																								
C.	All salespeople either in Barcelona or in London																								
	<table><tr><th>SNAME</th><th>CITY</th></tr><tr><td>Peel</td><td>London</td></tr><tr><td>Motika</td><td>London</td></tr><tr><td>Rafkin</td><td>Barcelona</td></tr></table>					SNAME	CITY	Peel	London	Motika	London	Rafkin	Barcelona												
SNAME	CITY																								
Peel	London																								
Motika	London																								
Rafkin	Barcelona																								
	SELECT SNAME,CITY FROM salesperson WHERE CITY = 'Barcelona' OR CITY= 'London';																								
D.	All salespeople with commission between 0.10 and 0.12. (Boundary values should be excluded).																								
	<table><tr><th>PK_SNo</th><th>SNAME</th><th>CITY</th><th>COMM</th></tr><tr><td>1001</td><td>Peel</td><td>London</td><td>0.12</td></tr><tr><td>1003</td><td>Axelrod</td><td>New York</td><td>0.1</td></tr><tr><td>1004</td><td>Motika</td><td>London</td><td>0.11</td></tr></table>					PK_SNo	SNAME	CITY	COMM	1001	Peel	London	0.12	1003	Axelrod	New York	0.1	1004	Motika	London	0.11				
PK_SNo	SNAME	CITY	COMM																						
1001	Peel	London	0.12																						
1003	Axelrod	New York	0.1																						
1004	Motika	London	0.11																						
	SELECT * FROM salesperson WHERE COMM >0.10 AND COMM < 0.12;																								
E.	All customers excluding those with rating <= 100 unless they are located in Rome																								
	<table><tr><th>CNM</th><th>CNAME</th><th>CITY</th><th>RATING</th><th>FK_SNo</th></tr><tr><td>202</td><td>Giovanne</td><td>Roe</td><td>200</td><td>1003</td></tr><tr><td>203</td><td>Liu</td><td>San josh</td><td>300</td><td>1002</td></tr><tr><td>206</td><td>Clemens</td><td>London</td><td>300</td><td>1007</td></tr></table>					CNM	CNAME	CITY	RATING	FK_SNo	202	Giovanne	Roe	200	1003	203	Liu	San josh	300	1002	206	Clemens	London	300	1007
CNM	CNAME	CITY	RATING	FK_SNo																					
202	Giovanne	Roe	200	1003																					
203	Liu	San josh	300	1002																					
206	Clemens	London	300	1007																					


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SELECT * FROM customer WHERE RATING > 100 OR (RATING <= 100 AND CITY='ROME' );
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