

National University of Computer and Emerging Sciences



In Lab Exercise

Database Systems

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Department of Computer Science
FAST-NU, Lahore, Pakistan

Database

For this in-lab exercise use the following **customer-salesman** schema.

1) Table Name: **salesman**

salesman_id	name	city	commission
5001	James Hoog	New York	0.15
5002	Nail Knite	Paris	0.13
5005	Pit Alex	London	0.11
5006	Mc Lyon	Paris	0.14
5007	Paul Adam	San Jose	0.13
5003	Lauson Hen	San Jose	0.12

2) Table Name: **orders**

ord_no	purch_amt	ord_date	customer_id	salesman_id
70001	150.5	2012-10-05	3005	5006
70009	270.65	2011-09-10	3001	5005
70002	65.26	2014-10-05	3002	5001
70004	110.5	2011-08-17	3009	5003
70007	948.5	2012-09-10	3005	5006
70005	2400.6	2010-07-27	3007	5001
70008	5760	2013-09-10	3002	5001
70010	1983.43	2010-10-10	3004	5005
70003	2480.4	2013-10-10	3009	5003
70012	250.45	2010-06-27	3008	5002
70011	75.29	2014-08-17	3003	NULL
70013	3045.6	2010-04-25	3002	NULL

3) Table Name: **customers**

customer_id	cust_name	city	grade	salesman_id
3002	Nick Rimando	New York	100	5001
3007	John Brad Davis	New York	200	5001
3005	Graham Zusi	California	200	5002
3008	Julian Green	London	300	5002
3004	Fabian Johnson	Paris	300	5006
3009	Geoff Cameron	Berlin	100	5003
3003	Jozy Altidor	Moscow	200	5007
3001	John Brad Guzan	London	Null	5005

Exercise

1. Create a view to display all orders placed in the year 2012 along with customer names.
2. Create a view that shows the total purchase amount handled by each salesman.
3. Create a view to display customers belonging to the same city as their assigned salesman.
4. Write a trigger to automatically calculate and store the total number of orders for a salesman.
5. Write a trigger to update a customer's grade when their total purchases exceed \$5000.