

Fanindra Saini
211b116
B4

DATABASE SYSTEMS ASSIGNMENT

Database-

1. Orders-

ord_num	ord_amount	advance_amount	ord_date	cust_code	agent_code	ord_description
200100	1000	600	08/01/2008	C00013	A003	SOD
200101	3000	1000	07/15/2008	C00001	A008	SOD
200102	2000	300	05/25/2008	C00012	A012	SOD
200103	1500	700	05/15/2008	C00021	A005	SOD
200104	1500	500	03/13/2008	C00006	A004	SOD
200105	2500	500	07/18/2008	C00025	A011	SOD
200106	2500	700	04/20/2008	C00005	A002	SOD
200107	4500	900	08/30/2008	C00007	A010	SOD
200108	4000	600	02/15/2008	C00008	A004	SOD
200109	3500	800	07/30/2008	C00011	A010	SOD
200110	3000	500	04/15/2008	C00019	A010	SOD
200111	1000	300	07/10/2008	C00020	A008	SOD
200112	2000	400	05/30/2008	C00016	A007	SOD
200113	4000	600	06/10/2008	C00022	A002	SOD
200114	3500	2000	08/15/2008	C00002	A008	SOD
200116	500	100	07/13/2008	C00010	A009	SOD
200117	800	200	10/20/2008	C00014	A001	SOD
200118	500	100	07/20/2008	C00023	A006	SOD
200119	4000	700	09/16/2008	C00007	A010	SOD
200120	500	100	07/20/2008	C00009	A002	SOD
200121	1500	600	09/23/2008	C00008	A004	SOD
200122	2500	400	09/16/2008	C00003	A004	SOD
200123	500	100	09/16/2008	C00022	A002	SOD
200124	500	100	06/20/2008	C00017	A007	SOD
200125	2000	600	10/10/2008	C00018	A005	SOD
200126	500	100	06/24/2008	C00022	A002	SOD
200127	2500	400	07/20/2008	C00015	A003	SOD
200128	3500	1500	07/20/2008	C00009	A002	SOD
200129	2500	500	07/20/2008	C00024	A006	SOD
200130	2500	400	07/30/2008	C00025	A011	SOD
200131	900	150	08/26/2008	C00012	A012	SOD
200133	1200	400	06/29/2008	C00009	A002	SOD
200134	4200	1800	09/25/2008	C00004	A005	SOD
200135	2000	800	09/16/2008	C00007	A010	SOD

34 rows in set (0.00 sec)

2. Customers-

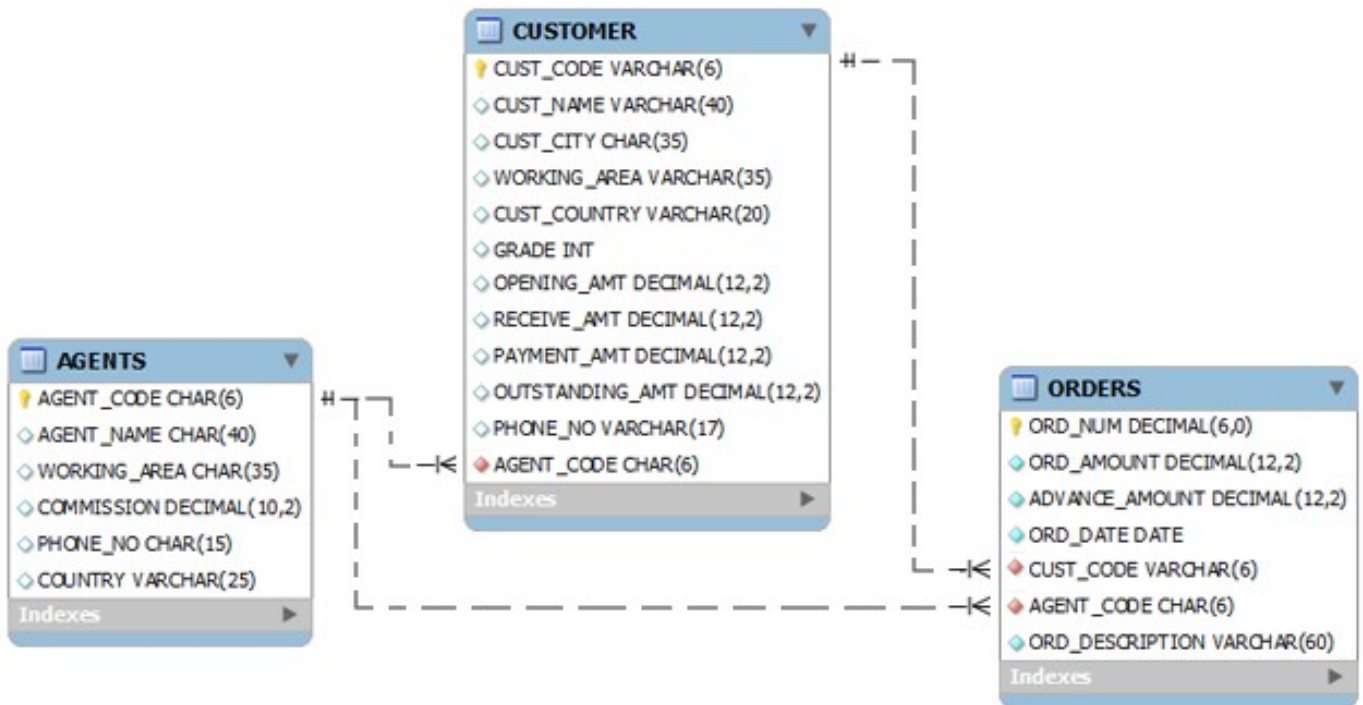
cust_code	cust_name	cust_city	working_area	cust_country	grade	opening_amt	receive_amt	payment_amt	outstanding_amt	phone_no	agent_code
C00001	Micheal	New York	New York	USA	2	3000	5000	2000	6000	CCCCCC	A008
C00002	Bolt	New York	New York	USA	3	5000	7000	9000	3000	DDNRDRH	A008
C00003	Martin	Toronto	Toronto	Canada	2	8000	7000	7000	8000	MJYURFD	A004
C00004	Winston	Brisban	Brisban	Australia	1	5000	8000	7000	6000	AAAAAAA	A005
C00005	Sasikant	Mumbai	Mumbai	India	1	7000	11000	7000	11000	147-25896312	A002
C00006	Shilton	Toronto	Toronto	Canada	1	10000	7000	6000	11000	DDDDDDD	A004
C00007	Ramanathan	Chennai	Chennai	India	1	7000	11000	9000	9000	GHRDWS	A010
C00008	Karolina	Toronto	Toronto	Canada	1	7000	7000	9000	5000	HJKORED	A004
C00009	Ramesh	Mumbai	Mumbai	India	3	8000	7000	3000	12000	Phone No	A002
C00010	Charles	Hampshair	Hampshair	UK	3	6000	4000	5000	5000	MMMMMM	A009
C00011	Sundariya	Chennai	Chennai	India	3	7000	11000	7000	11000	PPHGRTS	A010
C00012	Steven	San Jose	San Jose	USA	1	5000	7000	9000	3000	KRFYJJK	A012
C00013	Holmes	London	London	UK	2	6000	5000	7000	4000	BBBBBBB	A003
C00014	Rangarappa	Bangalore	Bangalore	India	2	8000	11000	7000	12000	AAAAATG	A001
C00015	Stuart	London	London	UK	1	6000	8000	3000	11000	GFSGERS	A003
C00016	Venkatpati	Bangalore	Bangalore	India	2	8000	11000	7000	12000	JRTVFDD	A007
C00017	Srinivas	Bangalore	Bangalore	India	2	8000	4000	3000	9000	AAAAAAB	A007
C00018	Fleming	Brisban	Brisban	Australia	2	7000	7000	9000	5000	NHBGVFC	A005
C00019	Yearannaidu	Chennai	Chennai	India	1	8000	7000	7000	8000	ZZZZBVF	A010
C00020	Albert	New York	New York	USA	3	5000	7000	6000	6000	BBBBBBB	A008
C00021	Jacks	Brisban	Brisban	Australia	1	7000	7000	7000	7000	WERTGDF	A005
C00022	Avinash	Mumbai	Mumbai	India	2	7000	11000	9000	9000	113-12345678	A002
C00023	Karl	London	London	UK	0	4000	6000	7000	3000	AAAAABAA	A006
C00024	Cook	London	London	UK	2	4000	9000	7000	6000	FSDDSD	A006
C00025	Ravindran	Bangalore	Bangalore	India	2	5000	7000	4000	8000	AVAVAVA	A011

25 rows in set (0.00 sec)

3.Agents-

agent_code	agent_name	working_area	commission	phone_no	country
A001	Subbarao	Bangalore	0	077-12346674	
A002	Mukesh	Mumbai	0	029-12358964	
A003	Alex	London	0	075-12458969	
A004	Ivan	Torento	0	008-22544166	
A005	Anderson	Brisban	0	045-21447739	
A006	McDen	London	0	078-22255588	
A007	Ramasundar	Bangalore	0	077-25814763	
A008	Alford	New York	0	044-25874365	
A009	Benjamin	Hampshair	0	008-22536178	
A010	Santakumar	Chennai	0	007-22388644	
A011	Ravi Kumar	Bangalore	0	077-45625874	
A012	Lucida	San Jose	0	044-52981425	

12 rows in set (0.00 sec)



Queries

DDL-

//Create

1. create database myshop ;
2. create table agents(agent_code char(6) not null primary key,agent_name char(40),working_area char(35),commission int,phone_no char(15),country varchar(25));

//Drop

3. drop database myshop2;
4. drop table products;

//Alter

5. alter table agents add country char(20);
6. alter table agents drop country;
7. alter table customers modify cust_name varchar(40);
8. alter table daily_orders rename to orders;
9. alter table orders change column date ord_date;
10. alter table agents add constraints unk_acode UNIQUE (agent_code);
11. alter table orders add primary key (ord_num);
12. alter table orders drop primary key;
13. alter table customers add acode_fk foreign key (agent_code) references agent(agent_code);
14. alter table customers drop foreign key acode_fk;
15. alter table orders add constraint chk_adv check(advance_amount<100 and ord_amount>1000);
16. alter table customers drop check chk_adv;
17. alter table orders alter ord_description set default "SOD";
18. alter table orders alter ord_description drop default ;

//Truncate

19. truncate table products;

DML-

//Select-

19. select * from customers;
20. select ord_num,ord_date,ord_amount from orders;
21. select sum(commission) from agents;
22. select * from orders where ord_amount>3000;
23. select * from orders where ord_amount>3000 and advance_amount<1000;
24. select * from agents where agent_name like "S%";
25. select * from agents where agent_name like "%r";
26. select * from agents where agent_name like "__n_a%";

27. *select * from agents where agent_name like "%f%";*

//Insert

28. *INSERT INTO agents VALUES ('A007', 'Ramasundar', 'Bangalore', '0.15', '077-25814763', '');*

//Update

29. *update customers set ord_amount+1000 where advance_payment<500;*

30. *update customers set ord_amount= where cust_code=200119;*

31. *update orders set ord_amount=ord_amount+100 where advance_amount<200;*

32. *update agents set commission=100 where commission=0;*

//Delete

33. *delete from orders where ord_amount<100;*

//Using alias-

34. *select ord_num,(ord_amount-advance_amount) as Due_Payment,ord_date from orders;*

35. *select distinct c.cust_code,cust_name,cust_city,c.agent_code from customers as c,orders as o where c.agent_code=o.agent_code;*

//Count-

36. *select count(*) from orders where ord_amount>2000;*

37. *select count(cust_name) from customers where receive_amt>10000;*

21. *select count(distinct cust_country) from customers;*

//Group by-

38. *select advance_amount,count(ord_num) from orders group by advance_amount;*

39. *select cust_country, count(*) from customers group by cust_country;*

40. *select cust_country, max(opening_amt) from customers group by cust_country;*

//Order by

41. *select cust_code,cust_name,payment_amt from customers order by payment_amt;*

42. *select ord_num, ord_amount, cust_code, ord_date from orders where ord_amount>3000 order by ord_date desc;*

//Having-

43. *select sum(outstanding_amt), cust_city from customers group by cust_city having cust_city="London";*

44. *select cust_country, avg(outstanding_amt) from customers group by cust_country having avg(outstanding_amt)>7000;*

