

Name: Ayush Patel Class B Batch- 35 Enrollment: 22162171038

Institute of Computer Technology

B. Tech Computer Science and Engineering

Sub: Database Management System (2CSE301)

Practical 1: To create database and insert records in the tables.

Scenario: Mohan who is a Computer Engineer seeking to start Computer Parts & Accessories Shop. They are planning to build Website and Application for which they met with IT Professionals and gave their requirements to develop the same. Now based on information gathered, IT Company is initiating to create Database.

A) Table Name: Client_master

Description: Used to store information about clients.

Column Name	Data Type	Size
Client_no	Varchar	6
Name	Varchar	20
Ciy	Varchar	15
Pincode	Numeric	8
State	Varchar	15
Bal_due	Numeric	10,2

B) Table Name: Product_master

Description: Used to store information about products.

Column Name	Data Type	Size
Product_no	Varchar	6
Description	Varchar	15
P_percent	Numeric	4,2
U_measure	Varchar	10
Qty_on_hand	Numeric	8
Reorder_lvl	Numeric	8
Sell_price	Numeric	8,2
Cost_price	Numeric	8,2

C) Table Name: Salesman_master

Description: Used to store information about salesman working in the company.

Column Name	Data Type	Size
S_no	Varchar	6
S_name	Varchar	20
City	Varchar	20
Pincode	Numeric	8
State	Varchar	20
Sal_amt	Numeric	8,2
Tgt_to_get	Numeric	6,2
Ytd_sales	Numeric	6,2
remarks	Varchar	12

A) Table Name: Client_master

Client_no	Name	City	Pincode	State	Bal_due
C001	Ivan	Bombay	400054	Maharashtra	15000
C002	Vandana	Madras	780001	Tamil Nadu	0
C003	Pramada	Bombay	400057	Maharashtra	5000
C004	Basu	Bombay	400056	Maharashtra	0
C005	Ravi	Delhi	100001	Gujarat	2000
C006	Rukmani	Bombay	400050	Maharashtra	0

B) Table Name: Product_master

Product_ No	Description	P_ percent	U_ Measure	Qty_on_ hand	Reorder_ lvl	sell_ price	Cost_ price
P001	Floppies	5	Piece	100	20	525	500
P002	Monitor	6	Piece	10	3	12000	11280
P003	Mouse	5	Piece	20	5	1050	1000
P004	Floppies	5	Piece	100	20	525	500
P005	Keyboards	2	Piece	10	3	3150	3050
P006	Cd Drive	2.5	Piece	10	3	5250	5100
P007	1.44 Drive	4	Piece	10	3	8400	8000

C) Table Name: Salesman_master

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S_no	S_name	City	Pin	State	Sal_Amt	Tgt_to_get	Ytd_Sales	Remarks
S001	Kiran	Bombay	400002	Maharashtar	3000	100	50	Excellent
S002	Manish	Bombay	400001	Maharashta	3000	200	100	Good
S003	Ravi	Bombay	400032	Maharashta	3000	200	100	Average
S004	Ashish	Bombay	400044	Maharashta	3500	200	150	Good

Exercise:

1. Create database in mysql with your branch name and enrollment number.
2. Create table client_master.
3. Create table product_master.
4. Create table salesman_master.
5. Describe structure for client_master table.
6. Describe structure for product_master table.
7. Describe structure for salesman_master table.
8. Insert records in client_master table.
9. Insert records in product_master table.
10. Insert records in salesman_master table.
11. Retrieve all records for client_master table.
12. Retrieve product_no, sell_price and cost_price for product_master table.
13. Retrieve s_no,s_name, remarks and sal_amt for salesman_master table.
14. Display all tables for your database.

Solutions: Commands

```
create database cs_22162171038;
use cs_22162171038;
create table client_master(Client_no varchar(6),Name varchar(20),Ciy varchar(15),Pincode
Numeric(8),State Varchar(15),Bal_due Numeric(10,2));
create table product_master(Product_no Varchar(6),Description Varchar(15),P_percent
Numeric(4,2),U_measure Varchar(10),Qty_on_hand Numeric(8),Reorder_lvl Numeric(8),Sell_price
Numeric(8,2),Cost_price Numeric(8,2));
create table salesman_master(S_no Varchar(6),S_name Varchar(20),City Varchar(20),Pincode
Numeric(8),State Varchar(20),Sal_amt Numeric(8,2),Tgt_to_get Numeric(6,2),Ytd_sales
Numeric(6,2),remarks Varchar(12));
desc client_master;
desc product_master;
desc salesman_master;
```

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```
insert into client_master values('C001', 'Ivan', 'Bombay', 400054, 'Maharashtra', 15000);
insert into client_master values('C002', 'Vandana', 'Madras', 780001, 'Tamil Nadu', 0);
insert into client_master values('C003', 'Pramada', 'Bombay', 400057, 'Maharashtra', 5000);
insert into client_master values('C004', 'Basu', 'Bombay', 400056, 'Maharashtra', 0);
insert into client_master values('C005', 'Ravi', 'Delhi', 100001, 'Gujarat', 2000);
insert into client_master values('C006', 'Rukmani', 'Bombay', 400050, 'Maharashtra', 0);
```

```
insert into product_master values('P001', 'Floppies', 5, 'Piece', 100, 20, 525, 500);
insert into product_master values('P002', 'Monitor', 6, 'Piece', 10, 3, 12000, 11280);
insert into product_master values('P003', 'Mouse', 5, 'Piece', 20, 5, 1050, 1000);
insert into product_master values('P004', 'Floppies', 5, 'Piece', 100, 20, 525, 500);
insert into product_master values('P005', 'Keyboards', 2, 'Piece', 10, 3, 3150, 3050);
insert into product_master values('P006', 'Cd Drive', '2.5', 'Piece', 10, 3, 5250, 5100);
insert into product_master values('P007', '1.44 Drive', 4, 'Piece', 10, 3, 8400, 8000);
```

```
insert into salesman_master values('S001', 'Kiran', 'Bombay', 400002, 'Maharashtar', 3000, 100,
50, 'Excellent');
insert into salesman_master values('S002', 'Manish', 'Bombay', 400001, 'Maharashta', 3000, 200,
100, 'Good');
insert into salesman_master values('S003', 'Ravi', 'Bombay', 400032, 'Maharashta', 3000, 200,
100, 'Average');
insert into salesman_master values('S004', 'Ashish', 'Bombay', 400044, 'Maharashta', 3500, 200,
150, 'Good');
select * from client_master;
select * from product_master;
select * from salesman_master;
```

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Tables:

Result Grid

Filter Rows:

Export:

Wrap Cell Content:


	Field	Type	Null	Key	Default	Extra
▶	Client_no	varchar(6)	YES		NULL	
	Name	varchar(20)	YES		NULL	
	Ciy	varchar(15)	YES		NULL	
	Pincode	decimal(8,0)	YES		NULL	
	State	varchar(15)	YES		NULL	
	Bal_due	decimal(10,2)	YES		NULL	


	Field	Type	Null	Key	Default	Extra
▶	Product_no	varchar(6)	YES		NULL	
	Description	varchar(15)	YES		NULL	
	P_percent	decimal(4,2)	YES		NULL	
	U_measure	varchar(10)	YES		NULL	
	Qty_on_hand	decimal(8,0)	YES		NULL	
	Reorder_lvl	decimal(8,0)	YES		NULL	
	Sell_price	decimal(8,2)	YES		NULL	
	Cost_price	decimal(8,2)	YES		NULL	

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Result Grid		Filter Rows:		Export:		Wrap Cell	
	Field	Type	Null	Key	Default	Extra	
▶	S_no	varchar(6)	YES		NULL		
	S_name	varchar(20)	YES		NULL		
	City	varchar(20)	YES		NULL		
	Pincode	decimal(8,0)	YES		NULL		
	State	varchar(20)	YES		NULL		
	Sal_amt	decimal(8,2)	YES		NULL		
	Tgt_to_get	decimal(6,2)	YES		NULL		
	Ytd_sales	decimal(6,2)	YES		NULL		
	remarks	varchar(12)	YES		NULL		


Result Grid





Filter Rows:

Export:



Wrap Cell C

	Client_no	Name	Ciy	Pincode	State	Bal_due
▶	C001	Ivan	Bombay	400054	Maharashtra	15000.00
	C002	Vandana	Madras	780001	Tamil Nadu	0.00
	C003	Pramada	Bombay	400057	Maharashtra	5000.00
	C004	Basu	Bombay	400056	Maharashtra	0.00
	C005	Ravi	Delhi	100001	Gujarat	2000.00
	C006	Rukmani	Bombay	400050	Maharashtra	0.00

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	Product_no	Description	P_percent	U_measure	Qty_on_hand	Reorder_lvl	Sell_price	Cost_price
▶	P001	Floppies	5.00	Piece	100	20	525.00	500.00
	P002	Monitor	6.00	Piece	10	3	12000.00	11280.00
	P003	Mouse	5.00	Piece	20	5	1050.00	1000.00
	P004	Floppies	5.00	Piece	100	20	525.00	500.00
	P005	Keyboards	2.00	Piece	10	3	3150.00	3050.00
	P006	Cd Drive	2.50	Piece	10	3	5250.00	5100.00
	P007	1.44 Drive	4.00	Piece	10	3	8400.00	8000.00

Result Grid

Filter Rows:

Export:

Wrap Cell Content:

	S_no	S_name	City	Pincode	State	Sal_amt	Tgt_to_get	Ytd_sales	remarks
▶	S001	Kiran	Bombay	400002	Maharashtra	3000.00	100.00	50.00	Excellent
	S002	Manish	Bombay	400001	Maharashtra	3000.00	200.00	100.00	Good
	S003	Ravi	Bombay	400032	Maharashtra	3000.00	200.00	100.00	Average
	S004	Ashish	Bombay	400044	Maharashtra	3500.00	200.00	150.00	Good

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Commands Execution:

Output				
Action Output				
#	Time	Action	Message	Duration / Fetch
✓	1 15:15:31	DROP DATABASE 'cs_35_21162171020'	1 row(s) affected	0.016 sec
✓	2 15:17:02	create database cs_22162171038	1 row(s) affected	0.000 sec
✓	3 15:17:12	use cs_22162171038	0 row(s) affected	0.000 sec
✓	4 15:17:17	create table client_master(Client_no varchar(6),Name varchar(20),City varchar(15),Pincode Numeric(8),Stat...	0 row(s) affected	0.015 sec
✓	5 15:17:21	create table product_master(Product_no Varchar(6),Description Varchar(15),P_percent Numeric(4,2),U_m...	0 row(s) affected	0.016 sec
✓	6 15:17:27	create table salesman_master(S_no Varchar(6),S_name Varchar(20),City Varchar(20),Pincode Numeric(8),...	0 row(s) affected	0.016 sec
✓	7 15:27:07	desc client_master	6 row(s) returned	0.000 sec / 0.000 sec
✓	8 15:27:37	desc product_master	8 row(s) returned	0.000 sec / 0.000 sec
✓	9 15:27:44	desc salesman_master	9 row(s) returned	0.000 sec / 0.000 sec
✓	10 15:27:50	insert into client_master values('C001','Ivan','Bombay',400054,'Maharashtra',15000)	1 row(s) affected	0.016 sec
✓	11 15:27:54	insert into client_master values('C002','Vandana','Madras',780001,'Tamil Nadu',0)	1 row(s) affected	0.000 sec
✓	12 15:27:58	insert into client_master values('C003','Pramada','Bombay',400057,'Maharashtra',5000)	1 row(s) affected	0.000 sec
✓	13 15:28:03	insert into client_master values('C004','Basu','Bombay',400056,'Maharashtra',0)	1 row(s) affected	0.016 sec
✓	14 15:28:06	insert into client_master values('C005','Ravi','Delhi',100001,'Gujarat',2000)	1 row(s) affected	0.000 sec
✓	15 15:28:11	insert into client_master values('C006','Rukmani','Bombay',400050,'Maharashtra',0)	1 row(s) affected	0.016 sec
✓	16 15:28:15	insert into product_master values('P001','Floppies',5,'Piece',100,20,525,500)	1 row(s) affected	0.000 sec
✓	17 15:28:20	insert into product_master values('P002','Monitor',6,'Piece',10,3,12000,11280)	1 row(s) affected	0.000 sec
✓	18 15:28:27	insert into product_master values('P003','Mouse',5,'Piece',20,5,1050,1000)	1 row(s) affected	0.000 sec
✓	19 15:28:33	insert into product_master values('P004','Floppies',5,'Piece',100,20,525,500)	1 row(s) affected	0.000 sec
✓	20 15:28:41	insert into product_master values('P005','Keyboards',2,'Piece',10,3,3150,3050)	1 row(s) affected	0.000 sec
✓	21 15:28:46	insert into product_master values('P006','Cd Drive',2.5,'Piece',10,3,5250,5100)	1 row(s) affected	0.000 sec
✓	22 15:28:51	insert into product_master values('P007','1.44 Drive',4,'Piece',10,3,8400,8000)	1 row(s) affected	0.000 sec
✓	23 15:29:00	insert into salesman_master values('S001','Kiran','Bombay',400002,'Maharashtra',3000,100,50,'Excell...	1 row(s) affected	0.000 sec
✓	24 15:29:16	insert into salesman_master values('S002','Manish','Bombay',400001,'Maharashtra',3000,200,100,'Goo...	1 row(s) affected	0.000 sec
✓	25 15:29:20	insert into salesman_master values('S003','Ravi','Bombay',400032,'Maharashtra',3000,200,100,'Avera...	1 row(s) affected	0.000 sec
✓	26 15:29:24	insert into salesman_master values('S004','Aashish','Bombay',400044,'Maharashtra',3500,200,150,'Good')	1 row(s) affected	0.000 sec
✓	27 15:29:28	select * from client_master	6 row(s) returned	0.000 sec / 0.000 sec
✓	28 15:29:35	select * from product_master	7 row(s) returned	0.000 sec / 0.000 sec
✓	17 15:28:20	insert into product_master values('P002','Monitor',6,'Piece',10,3,12000,11280)	1 row(s) affected	0.000 sec
✓	18 15:28:27	insert into product_master values('P003','Mouse',5,'Piece',20,5,1050,1000)	1 row(s) affected	0.000 sec
✓	19 15:28:33	insert into product_master values('P004','Floppies',5,'Piece',100,20,525,500)	1 row(s) affected	0.000 sec
✓	20 15:28:41	insert into product_master values('P005','Keyboards',2,'Piece',10,3,3150,3050)	1 row(s) affected	0.000 sec
✓	21 15:28:46	insert into product_master values('P006','Cd Drive',2.5,'Piece',10,3,5250,5100)	1 row(s) affected	0.000 sec
✓	22 15:28:51	insert into product_master values('P007','1.44 Drive',4,'Piece',10,3,8400,8000)	1 row(s) affected	0.000 sec
✓	23 15:29:00	insert into salesman_master values('S001','Kiran','Bombay',400002,'Maharashtra',3000,100,50,'Excell...	1 row(s) affected	0.000 sec
✓	24 15:29:16	insert into salesman_master values('S002','Manish','Bombay',400001,'Maharashtra',3000,200,100,'Goo...	1 row(s) affected	0.000 sec
✓	25 15:29:20	insert into salesman_master values('S003','Ravi','Bombay',400032,'Maharashtra',3000,200,100,'Avera...	1 row(s) affected	0.000 sec
✓	26 15:29:24	insert into salesman_master values('S004','Aashish','Bombay',400044,'Maharashtra',3500,200,150,'Good')	1 row(s) affected	0.000 sec
✓	27 15:29:28	select * from client_master	6 row(s) returned	0.000 sec / 0.000 sec
✓	28 15:29:35	select * from product_master	7 row(s) returned	0.000 sec / 0.000 sec
✓	29 15:29:39	select * from salesman_master	4 row(s) returned	0.000 sec / 0.000 sec