**Huda Husain Petkar**

**M. Sc DS & AI || L017 || ADBMS**

**Practical 1 - 06.12.24**

**Creation of Database**

create database mydb1;

use mydb1;

**Creation of table ‘Salesman’**

create table salesman( salesman\_id int, name varchar(25), city varchar(25), commission float, primary key(salesman\_id));

insert into salesman values(5001,'James Hoog', 'New York', 0.15),

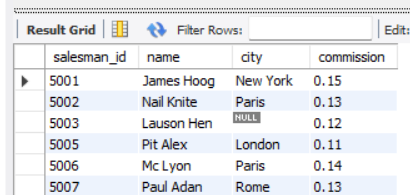
(5002,'Nail Knite', 'Paris', 0.13),

(5005,'Pit Alex', 'London', 0.11),

(5006,'Mc Lyon', 'Paris', 0.14),

(5003,'Lauson Hen', NULL, 0.12),

(5007,'Paul Adan', 'Rome', 0.13);



**Creation of table ‘Customer’**

create table customer(customer\_id int, customer\_name varchar(30), city varchar(25), grade int, salesman\_id int,

Foreign key(salesman\_id) references salesman(salesman\_id), primary key(customer\_id) );

insert into customer values

(3002,'Nick Rimando', 'New York', 100, 5001),

(3005,'Graham Zusi', 'California', 200, 5002),

(3001,'Brad Guran', 'London', NULL, NULL),

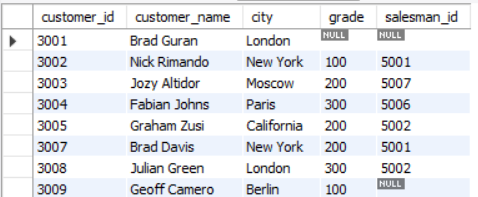
(3004,'Fabian Johns', 'Paris', 300, 5006),

(3007,'Brad Davis', 'New York', 200, 5001),

(3009,'Geoff Camero', 'Berlin', 100, NULL),

(3008,'Julian Green', 'London', 300, 5002),

(3003,'Jozy Altidor', 'Moscow', 200, 5007);



**Creation of table ‘Order’**

create table orrder(order\_no int, purch\_amt float, order\_date date, customer\_id int, salesman\_id int, foreign key(customer\_id) references customer(customer\_id), foreign key(salesman\_id) references salesman(salesman\_id));

insert into orrder values

(70001, 150.5, '2016-10-05', 3005,5002),

(70009, 270.65, '2016-09-10', 3001,NULL),

(70002, 65.26, '2016-10-05', 3002,5001),

(70004, 110.5, '2016-08-17', 3009,NULL),

(70007, 948.5, '2016-09-10', 3005,5002),

(70005, 2400.6, '2016-07-27', 3007,5001),

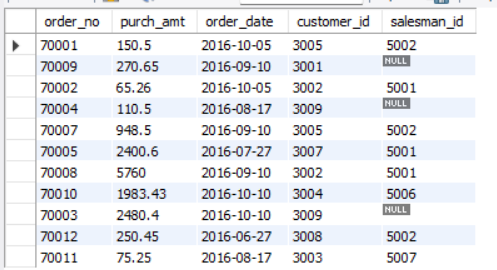
(70008, 5760, '2016-09-10', 3002,5001),

(70010, 1983.43, '2016-10-10', 3004,5006),

(70003, 2480.4, '2016-10-10', 3009,NULL),

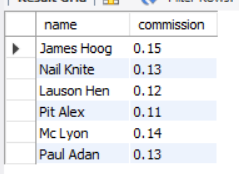
(70012, 250.45, '2016-06-27', 3008,5002),

(70011, 75.25, '2016-08-17', 3003,5007);



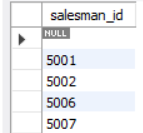
**1. Display name and commission for all the salesmen.**

select name, commission from salesman;



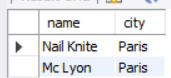
**2. Retrieve salesman id of all salesmen from orders table without any repeats.**

select distinct(salesman\_id) from orrder;



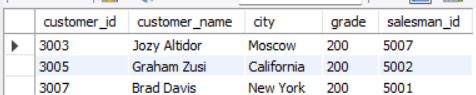
**3. Display names and city of salesman, who belongs to the city of Paris**

select name, city from salesman where city='Paris';



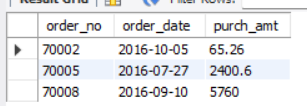
**4. Display all the information for those customers with a grade of 200**

select \* from customer where grade = 200;



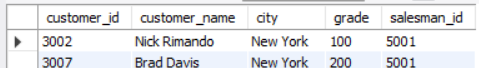
**5. Display the order number, order date and the purchase amount for order(s) which will be delivered by the salesman with ID 5001**

select order\_no, order\_date, purch\_amt from orrder where salesman\_id = 5001;



**12. Display all the customers, who either belong to the city New York or not had a grade above 100.**

select \* from customer where city = 'New york' OR grade<100;



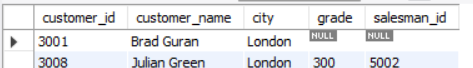
**13. Find those salesmen with all information who gets the commission within a range of 0.12 and 0.14.**

select \* from salesman where commission between 0.12 and 0.14;



**14. Find all those customers with all information whose names are ending with the letter 'n'.**

select \* from customer where customer\_name LIKE '%n';



**15. Find those salesmen with all information whose name containing the 1st character is 'N' and the 4th character is 'l' and rests may be any character.**

select \* from salesman where name LIKE 'N\_\_l%';



**16. Find that customer with all information who does not get any grade except NULL.**

select \* from customer where grade IS NULL;



**17. Find the total purchase amount of all orders.**

select sum(purch\_amt) as total\_purchase\_amt from orrder;



To round up - select round(sum(purch\_amt)) as total\_purchase\_amt from orrder;



**18. Find the number of salesman currently listing for all of their customers.**

select count(distinct(salesman\_id)) from customer;



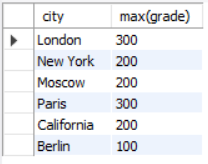
OR

select count(distinct(salesman\_id)) AS no\_of\_salesman from customer;



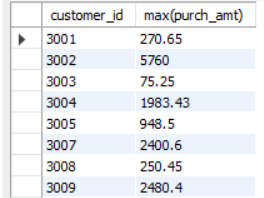
**19. Find the highest grade for each of the cities of the customers.**

select city, max(grade) from customer group by city;



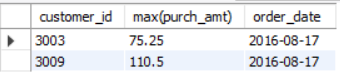
**20. Find the highest purchase amount ordered by each customer with their ID and highest purchase amount.**

select customer\_id, max(purch\_amt) from orrder group by customer\_id;



**21. Find the highest purchase amount ordered by each customer on a particular date with their ID, order date and highest purchase amount.**

select customer\_id, max(purch\_amt), order\_date from orrder where order\_date= '2016-08-17' group by customer\_id ;



**22. Find the highest purchase amount on a date '2012-08-17' for each salesman with their ID.**

select salesman\_id, max(purch\_amt) from orrder where order\_date = '2012-08-17' group by salesman\_id;



**23. Find the highest purchase amount with their customer ID and order date, for only those customers who have the highest purchase amount in a day is more than 2000.**

select customer\_id, max(purch\_amt), order\_date from orrder where purch\_amt >2000 group by customer\_id ;

**24. Write a SQL statement that counts all orders for a date August 17th, 2016.**

select count(order\_no) as no\_of\_orders from orrder where order\_date = '2016-08-17';

