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1.Create MySQL user by your name and create your own default database

Create user & databases & granting permission privilege.

step 1. Login with "root" user.

cmd> mysql -u root -p

Password: cdac

step 2. Create a new user.

mysql> CREATE USER dac1@localhost IDENTIFIED BY 'cdac';

step 3. Create a new database/schema.

mysql> CREATE DATABASE classwork;

mysql> SHOW DATABASES;

step 4. Give all permissions to the new user on the new database.

mysql> GRANT ALL PRIVILEGES ON classwork.* TO dac1@localhost;

mysql> FLUSH PRIVILEGES;

step 5. mysql> EXIT

step 1. Login with new user and password on MySQL CLI.

cmd> mysql -u dac1 -p

Password: cdac

2. Solve all Exercises and Assignments with the above user

3. MySQL - SQL - Exercises

SQL_Exercise1

4. MySQL - SQL - Assignments

SQL_Asgn1 - SQL_Asgn3

5. www.oracle.com

Create Oracle Account

Signup for MySQL, Java, and Oracle Newsletters

MySQL Magazine, Oracle Magazine, and Java Magazine

6.MySQL PDFs:-

Intro to MySQL, MySQL Datatypes

7. Download MySQL, Java, and Oracle Documentation

https://dev.mysql.com/doc/refman/9.0/en/

https://docs.oracle.com

8. '1995-01-15' or '95-01-15'

Why is 1970 the cut-off year?

Assignment -1

Creating sample tables and inserting values.

Create the following tables with the given structures and insert sample data as specified: -

A) SALESPEOPLE

```
Snum int(4)
Sname varchar(10)
City varchar(10)
Comm float(3,2)
create table SALESPEOPLE(
  Snum int(4),
  Sname varchar(10),
  City varchar(10),
  Comm float(3,2)
  );
B) CUSTOMERS
Cnum int(4)
             varchar(10)
Cname
City varchar(10)
Rating int(4)
Snum int(4)
create table customer(
 -> Cnum int(4),
 -> Cname varchar(10),
```

```
-> City varchar(10),
 -> Rating int(4),
 -> Snum int(4));
C) ORDERS
Onum int(4)
Amt float(7,2)
Odate date
Cnum int(4)
Snum int(4)
create table orders (
  Onum int(4),
  Amt float(7,2),
Odate date,
  Cnum int(4),
 Snum int(4));
```

SNUM SNAME CITY COMM

1001 Peel London .12

1002 Serres San Jose .13

1004 Motika London .11

1007 Rifkin Barcelona .15

1003 Axelrod New York .10

insert into salespeople values

-> (1002, 'serres', 'San Jose', '0.13'),

-> (1004, 'Motika', 'London', '0.11'),

-> (1007,'Rifkin','Barcelone','0.15'),

-> (1003,'Axelrod','New York','0.10');

CUSTOMERS

CNUM CNAME CITY RATING SNUM

2001 Hoffman London 100 1001

2002 Giovanni Rome 200 1003

2003 Liu San Jose 200 1002

2004 Grass Berlin 300 1002

2006 Clemens London 100 1001

2008 Cisneros San Jose 300 1007

2007 Pereira Rome 100 1004

insert into customer values

(2001, 'Hoffman', 'London', 100, 1001),
(2002, 'Giovanni', 'Rome', 200, 1003),
(2003, 'Liv', 'San Jose', 200, 1002),
(2004, 'Grass', 'Berlin', 300, 1002),
(2006, 'Clemens', 'London', 100, 1001),
(2008, 'Cisneros', 'Sen Jose', 300, 1007),
(2007, 'Pereira', 'Rome', 100, 1004);

ORDERS

ONUM AMT	ODATE CNUM	/ 1	SNUM	
3001 18.69	03-OCT-1990 2008	3	1007	
3003 767.19	03- OCT -1990 200	1	1001	
3002 1900.10	03- OCT -1990	2007		1004
3005 5160.45	03- OCT -1990	2003		1002
3006 1098.16	03- OCT -1990	2008		1007
3009 1713.23	04- OCT -1990	2002		1003
3007 75.75	04- OCT -1990	2004		1002

3008 4723.00	05- OCT -1990	2006	1001
3010 1309.95	06- OCT -1990	2004	1002
3011 9891.88	06- OCT -1990	2006	1001

insert into orders values

```
(3003,767.19,'1990-10-03',2001,1001),
(3002,1900.10,'1990-10-03',2007,1004),
(3005,5160.45,'1990-10-03',2003,1002),
(3006,1098.16,'1990-10-03',2008,1007),
(3009,1713.23,'1990-10-04',2002,1003),
(3007,75.75,'1990-10-04',2004,1002),
(3008,4723.00,'1990-10-05',2006,1001),
(3010,1309.95,'1990-10-06',2004,1002),
(3011,9891.88,'1990-10-06',2006,1001);
```

Assignment –2

Introducing Relational Databases.

1) Which field of the Customers table is the primary key?

ANS.. CNUM

2) What is the 4th column of the Customers table?

Ans..RATING

3) What is another word for row? For column?

row -----line, record, or entry depending on the context (e.g., in databases or tables).

column -----field, attribute, again depending on how you're using the term.

4) Why isn't it possible to see the first five rows of a table?

ANS...

1.it is not possibal if insert only four row in a teable.

2.It is not possibal is write wring command

3.not possibal if give the limitation of only 4 Rows

Assignment -3

Overview of SQL.

1) Does ANSI recognize the data type DATE?

Ans....Yes ,ANSI(American National Standered Institute) dose recognize the Date And timr In my Sql.

It is Standered date type use to store calender dates (YYYY-MM-DD).

2) Which subdivision of SQL is used to insert values in tables?

Ans...DML(Data Manipulation language) comman DML command;

Inser delete And update....

Assignment -4

Retrieving Information from Tables.

1) Write a select command that produces the order number, amount, and date for all rows in the Orders table.

Ans.. select Onum, Amt, 'date' from orders;

2) Write a query that produces all rows from the Customers table for which the salesperson's number is 1001.

Ans..select * from customer

where Snum = 1001;

3) Write a query that displays the Salespeople table with the columns in the following order: city, sname, snum, comm.

Ans...select city, sname, snum, comm from salespeople;

4) Write a select command that produces the rating followed by the name of each customer in San Jose.

Ans...SELECT Rating, Cname from customer

where city = 'San Jose';

5) Write a query that will produce the snum values of all salespeople (suppress the

duplicates) with orders in the Orders table
Ansselect distinct snum from orders;
Assignment –5 Relational and Logical
Operators.
1) Write a query that will give you all orders for more than Rs. 1,000.
Ansselect * from orders
where Amt >1000;
2) Write a query that will give you the names and cities of all salespeople in
London with a commission above .10.
Ans
select sname, city from salespeople
-> where city = 'London' and Comm > '0.10';
3) Write a query on the Customers table whose output will exclude all customers

with a rating <= 100, unless they are located in Rome.

```
Ans.....
select * from customer
  where Rating <='100' and city = 'Rome';
4) What will be the output from the following query?
Select * from Orders
where (amt < 1000 OR
NOT (odate = 1990-10-03
AND cnum > 2003);
Onum | Amt | Odate | Cnum | Snum |
+----+
| 3001 | | 18.69 | 1990-10-03 | 2008 | 1007 |
| 3003 | 767.19 | 1990-10-03 | 2001 | 1001 |
| 3005 | 5160.45 | 1990-10-03 | 2003 | 1002 |
| 3009 | 1713.23 | 1990-10-04 | 2002 | 1003 |
| 3007 | | 75.75 | 1990-10-04 | 2004 | 1002 |
| 3008 | 4723.00 | 1990-10-05 | 2006 | 1001 |
| 3010 | 1309.95 | 1990-10-06 | 2004 | 1002 |
| 3011 | 9891.88 | 1990-10-06 | 2006 | 1001 |
+----+
5) What will be the output of the following query?
Select * from Orders
where NOT ((odate = '1990-10-03' OR snum
>1006) AND amt >= 1500);
```

6) What is a simpler way to write this query?

Select snum, sname, city, comm From Salespeople

where (comm > .12 OR comm < .14);

SELECT snum, sname, city, comm

FROM Salespeople

WHERE comm > 0.12 OR comm < 0.14;

Assignment -6

Using Special Operators in Conditions.

1) Write two different queries that would produce all orders taken on October 3rd or 4 th, 1990.

A).... select * from orders

where Odate = '1990-10-03' or Odate = '1990-10-04';

B)..... select * from orders

where Odate in('1990-10-03','1990-10-04');

2) Write a query that selects all of the customers serviced by C (Hint: the snum field relates the two tables to one another).

Select * from customer

Where snum in (select snum from SALESPEOPLE

Where sname in('peel','Motika'));

+----+

| Cnum | Cname | City | Rating | Snum |

+----+

| 2001 | Hoffman | London | 100 | 1001 |

| 2006 | Clemens | London | 100 | 1001 |

| 2007 | Pereira | Rome | 100 | 1004 |

+----+----+----+----

3) Write a query that will produce all the customers whose names begin with a letter

select * from customer

where cname like 'A%' or cname like 'B%' or cname like 'C%' or cname like 'D%' or cname like 'E%' or cname like 'F%' or cname like 'G%';

```
+----+
| Cnum | Cname | City | Rating | Snum |
+-----+
| 2002 | Giovanni | Rome | 200 | 1003 |
| 2004 | Grass | Berlin | 300 | 1002 |
| 2006 | Clemens | London | 100 | 1001 |
| 2008 | Cisneros | San Jose | 300 | 1007 |
| -----+
```

3) Write a query that selects all customers whose names begin with the letter 'C'

```
. select * from customer
-> where cname like 'C%';
+-----+
| Cnum | Cname | City | Rating | Snum |
+----+
| 2006 | Clemens | London | 100 | 1001 |
| 2008 | Cisneros | San Jose | 300 | 1007 |
+----+
```

5) Write a query that selects all orders except those with zeroes or NULLs in the amt field. select * from orders where amt is not null and amt !=0; Assignment –7 **Summarizing Data with Aggregate Functions.** 1) Write a query that counts all orders for October 3. select count(*) from orders where Odate = '1990-10-03'; 2) Write a query that counts the number of different non-NULL city values in the Customers table. select count(*) from customer where city is not null; 3) Write a query that selects each customer's smallest order. select cnum, min(amt) from orders group by cnum; 4) Write a query that selects the first customer, in alphabetical order, whose name

begins with G.

select min(Cname) from customer where cname like 'G%';

4) Write a query that selects the highest rating in each city.

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

6) Write a query that counts the number of salespeople registering orders for each day. (If a salesperson has more than one order on a given day, he or she should be counted only once.)

select Odate, count (distinct Snum) from orders group by Odate;.

ASSIGNMENT -8 FORMATTING QUERY OUTPUT.

1) Assume each salesperson has a 12% commission. Write a query on the orders table that will produce the order number, the salesperson number, and the amount of the salesperson's commission for that order.

```
select Onum,Snum,amt *.12 from orders;
+----+
| Onum | Snum | amt *.12 |
+----+
| 3001 | 1007 | 2.24 | |
| 3003 | 1001 | 92.06 |
| 3002 | 1004 | | 228.01 |
| 3005 | 1002 | 619.25 |
| 3006 | 1007 | | 131.78 |
| 3009 | 1003 | | 205.59 |
| 3007 | 1002 | 9.09 |
| 3008 | 1001 | | 566.76 |
| 3010 | 1002 | | 157.19 |
| 3011 | 1001 | 1187.03 |
+----+
2) Write a query on the Customers table that will find the highest rating in each city.
Put the output in this form:
For the city (city), the highest rating is: (rating).
select concat('for the city ',city , ',the highest rating is: ', max(rating))from customer group
by city;
concat('for the city ',city , ',the highest rating is : ', max(rating)) |
+-----+
for the city London, the highest rating is: 100
for the city Rome, the highest rating is: 200
```

3) Write a query that lists customers in descending order of rating. Output the rating field first, followed by the customer's name and number.

select rating ,cname ,cnum from customer order by rating desc;

4) Write a query that totals the orders for each day and places the results in descending order.

select odate, sum(amt) from orders group by odate order by sum(amt) desc;

Assignment – 9

Querying Multiple Tables at Once.

1) Write a query that lists each order number followed by the name of the customer who made the order.

select orders.onum ,customer.cname from orders,customer

where orders.cnum = customer.cnum;

2) Write a query that gives the names of both the salesperson and the customer for

each order along with the order number.

select salespeople.Sname,customer.cname,orders.onum from orders,customer,salespeople where orders.snum = customer.snum and orders.snum = salespeople.snum;

3) Write a query that produces all customers serviced by salespeople with a commission above 12%. Output the customer's name, the salesperson's name, and the salesperson's rate of commission.

select customer.cname,salespeople.sname from customer,salespeople where customer.snum=salespeople.snum and comm >0.12;

4) Write a query that calculates the amount of the salesperson's commission on each order by a customer with a rating above 100.

select salespeople.sname, sum(orders.amt*salespeople.comm) from orders,customer,salespeople where orders.snum = customer.snum and orders.snum = salespeople.snum and customer.rating > 100 group by sname;

Assignment – 10

Joining a Table to Itself.

1) Write a query that produces all pairs of salespeople who are living in the same city. Exclude combinations of salespeople with themselves as well as duplicate rows with the order reversed.

select a.sname,b.sname,a.city from salespeople b,salespeople a where a.city = b.city and a.snum < b.snum;

2) Write a query that produces the names and cities of all customers with the same rating as Hoffman.

select cname, city from customer where rating =(select rating from customer where cname = 'Hoffman');

Assignment – 11

Subqueries.

1) Write a query that uses a subquery to obtain all orders for the customer named Cisneros. Assume you do not know his customer number (cnum).

SELECT *

FROM orders

WHERE cnum = (SELECT cnum FROM customers WHERE cname = 'Cisneros');

2) Write a query that produces the names and ratings of all customers who have above-average orders.

SELECT cname, rating

FROM customers

WHERE cnum IN (

SELECT cnum

FROM orders

GROUP BY cnum

HAVING AVG(amount) > (SELECT AVG(amount) FROM orders)

);

3) Write a query that selects the total amount in orders for each salesperson for whom this total is greater than the amount of the largest order in the table.

SELECT snum, SUM(amount) AS total_sales

FROM orders

GROUP BY snum

HAVING SUM(amount) > (SELECT MAX(amount) FROM orders);

Assignment -12Using the operators IN, ANY, and ALL.

1) Write a query that selects all customers whose ratings are equal to or greater than ANY of Serres'.

SELECT *

FROM customers

WHERE rating >= ANY (SELECT rating FROM customers WHERE cname = 'Serres');

2) Write a query using ANY or ALL that will find all salespeople who have no customers located in their city.

SELECT *

FROM salespeople

WHERE snum <> ALL (SELECT snum FROM customers WHERE city = salespeople.city);

3) Write a query that selects all orders for amounts greater than any for the customers in London.

SELECT *

FROM orders

WHERE amount > ANY (SELECT amount FROM orders WHERE cnum IN

(SELECT cnum FROM customers WHERE city = 'London')

);

5) Write the above query using MIN or MAX.

SELECT *

FROM orders

WHERE amount > (SELECT MIN(amount) FROM orders WHERE cnum IN

(SELECT cnum FROM customers WHERE city = 'London')

);

Assignment – 13

Using the UNION clause.

1) Create a union of two queries that shows the names, cities, and ratings of all customers. Those with rating of 200 or greater will also have the words "High Rating", while the others will have the words "Low Rating".

select cname, city, rating, 'High Rating' as ratint from customer where rating >= 200 union select cname, city, rating, 'low Rating' as Rating from customer where rating < 200;

2) Write a command that produces the name and number of each salesperson and each customer with more than one current order. Put the results in alphabetical order.

SELECT cname AS name, cnum AS number

FROM customer

WHERE cnum IN (SELECT cnum FROM orders GROUP BY cnum HAVING COUNT(*) > 1)

UNION

SELECT sname AS name, snum AS number

FROM salespeople

ORDER BY name

3) Form a union of three queries. Have the first select the snums of all salespeople in San Jose; the second, the cnums of all customers in San Jose; and the third the onums of all orders on October 3. Retain duplicates between the last two queries but eliminate any redundancies between either of them and the first.

(Note: in the sample tables as given, there would be no such redundancy. This is besides the point.)

select snum from salespeople where city = 'San Jose' union (select cnum from customer where city = 'San Jose' union select onum from orders where odate =' 1990-10-03');

Assignment – 14

Entering, Deleting, and Changing Field Values.

1) Write a command that puts the following values, in their given order, into the salespeople table: city – San Jose, name – Blanco, comm – NULL, cnum – 1100. insert into salespeople(city,sname,comm,snum) values ('san jose ','Blanco',null,'1100');

2) Write a command that removes all orders from customer Clemens from the Orders table.

Delete from orders where cnum =(select cnum from customer where cname =' Clemens ')

- 2) Write a command that increases the rating of all customers in Rome by 100.

 update customer set rating = rating +100 where city = 'Rome';
- 3) Salesperson Serres has left the company. Assign her customers to Motika.

UPDATE customers SET snum = (SELECT snum FROM salespeople WHERE sname = 'Motika') WHERE snum = (SELECT snum FROM salespeople WHERE sname = 'Serres');

Assignment – 15

Using Subqueries with DML Commands.

1) Assume there is a table called Multicust, with all of the same column definitions as Salespeople. Write a command that inserts all salespeople with more than one customer into this table.

Insert into Multicust(snum,sname,city,comm) select snum,sname,city,comm

From Salespeople where snum in (select snum from customer group by snum having count(*) > 1);

2) Write a command that deletes all customers with no current orders.

Delete from customer where cnum not in(select distinct cnum from orders);

3) Write a command that increases by twenty percent the commissions of all salespeople with total orders above Rs. 3,000.

Update salespeople set comm = comm *1.2 where snum in(select snum from orders group by snum having sum(amt)>3000);

Assignment – 16

Creating Tables and Indexes.

1) Write a command that will enable a user to pull orders grouped by date out of the Orders table quickly.

create index index name on orders(odate);

select odate,count(*) from orders group by odate order by odate;

2) If the Orders table has already been created, how can you force the onum field to be unique (assume all current values are unique)?

Create unique index idx_unique_index on Orders(onum);

3) Create an index that would permit each salesperson to retrieve his or her orders grouped by date quickly.

Create index idx_salesperson_orders on orders(snum,odate);

Select snum, odate from orders group by snum, odate order by snum, odate;

4) Let us assume that each salesperson is to have only one customer of a given rating, and that this is currently the case. Enter a command that enforces it. alter table customer add constraint unique (snum,rating);

update customer set rating = 101 where snum = 1001 and rating = 100;

Assignment – 17

Constraining the Values of your data.

1) Create the Orders table so that all onum values as well as all combinations of cnum and snum are different from one another, and so that NULL values are excluded from the date field.

Create table orders3 (

Onum int primary key,

Cnum int,

Snum int,

Amt decimal(10,2),

Odatee date not null,

Foreign key (cnum) references customer(cnum),

Foreign key (snum) references selespeople(snum),

Constraint unique_cnum_snum unique (Cnum, Snum)

);

2) Create the Salespeople table so that the default commission is 10% with no NULLS permitted, snum is the primary key, and all names fall alphabetically between A and M, inclusive (assume all names will be uppercase).

Create table salespeople2 (snum int primary key,Sname varchar(50) not null check (sname between 'A' and 'M'), city varchar(50), comm decimal(3,2) not null default 0.10 check (comm between 0.10 and 1.00));

3) Create the Orders table, making sure that the onum is greater than the cnum, and the cnum is greater that the snum. Allow no NULLS in any of these three fields.

Create table orders4 (onum int not null, cnum int not null, snum int not null, amt decimal(10,2), odate date not null, check(onum>cnum), check (cnum>snum));

Assignment – 18

Maintaining the Integrity of your Data.

1) Create a table called Cityorders. This will contain the same onum, amt and snum fields as the Orders table, and the same cnum and city fields as the Customers table, so that each customer's order will be entered into this table along with his or her city. Onum will be the primary key of Cityorders. All of the fields in Cityorders will be constrained to match the Customers and Orders tables. Assume

the parent keys in these tables already have the proper constraints.

Create table Cityorders(

Onum int primary key,

Amt decimal(10,2),

Snum int,

Cnum int,

City varchar(50)

);

INSERT INTO Cityorders (Onum, Amt, Snum, Cnum, City)

SELECT orders.Onum, orders.Amt, orders.Snum, customers.Cnum, customers.City

FROM Orders, customers

Where orders.Cnum = customers.Cnum;

2) Redefine the Orders table as follows:- add a new column called *prev*, which will identify, for each order, the onum of the previous order for that current customer. Implement this with a foreign key referring to the Orders table itself. The foreign key should refer as well to the cnum of the customer, providing a definite enforced link between the current order and the one referenced.

Alter table orders

Add column prev int,

Add constraint fk_prev_orders foreign key (prev) references orders (onum);

Update orders o1 set prev = (

Set prev = (

Select max(o2.onum) from orders o2

Assignment – 19

Views.

1) Create a view that shows all of the customers who have the highest ratings

Create view v1 as select * from custromer where rating = (select Max(rating)from customer);

select * from v1;

2) Create a view that shows the number of salespeople in each city.

Create view v2 as select count(city), city from salespeople group by city; select * from v2;

3) Create a view that shows the average and total orders for each salesperson after his or her name. Assume all names are unique.

create view v3 as select sname ,avg(amt),sum(amt) from orders,salespeople where orders.Snum = salespeople .snum group by sname;

select * from v3;

4) Create a view that shows each salesperson with multiple customers.

Create view v4 as select salespeople.sname,salespeople.snum,count(customer.cnum) from customer,salespeople where customer.snum =salespeople.snum group by salespeople.snum,salespeople.sname having count(cnum)>1;

select * from v4;

Assignment – 20 Changing Values through Views.

- 1) Which of these views are updateable (will allow DML operations)?
- #1 **Create View Dailyorders**

as Select Distinct cnum, snum, onum, odate from Orders;

```
select * from Dailyorders;
+----+
| cnum | snum | onum | odate
+----+
| 2008 | 1007 | 3001 | 1990-10-03 |
| 2001 | 1001 | 3003 | 1990-10-03 |
| 2007 | 1004 | 3002 | 1990-10-03 |
| 2003 | 1002 | 3005 | 1990-10-03 |
| 2008 | 1007 | 3006 | 1990-10-03 |
| 2002 | 1003 | 3009 | 1990-10-04 |
| 2004 | 1002 | 3007 | 1990-10-04 |
| 2006 | 1001 | 3008 | 1990-10-05 |
| 2004 | 1002 | 3010 | 1990-10-06 |
| 2006 | 1001 | 3011 | 1990-10-06 |
+----+
```

#2

as Select cname, sum(amt) Sum_Amt from Orders, Customer where Orders.cnum=Customer.cnum
Group by cname;

select * from Custotals;

+----+

| cname | Sum_Amt |

+----+

| Cisneros | 1116.85 |

| Hoffman | 767.19 |

| Pereira | 1900.10 |

| Liv | 5160.45 |

| Giovanni | 1713.23 |

| Grass | 1385.70 |

| Clemens | 14614.88 |

+----+

#3 Create view Thirdorders

as Select * from Dailyorders where

odate='1990-10-03';

select * from Thirdorders;

+----+

| cnum | snum | onum | odate

+----+

| 2008 | 1007 | 3001 | 1990-10-03 |

| 2001 | 1001 | 3003 | 1990-10-03 |

| 2007 | 1004 | 3002 | 1990-10-03 |

| 2003 | 1002 | 3005 | 1990-10-03 |

2) Create a view of the Salespeople table called Commissions. This view will include only the snum and comm fields. Through this view, someone could enter or change commissions, but only to values between .10 and .20.

CREATE VIEW Commissions AS

+----+

SELECT snum, comm

FROM Salespeople;

3) Some SQL implementations have a built-in constant representing the current date, sometimes called "CURDATE" or "SYSDATE". The word SYSDATE can therefore be used in a SQL statement, and be replaced by the current date when the

value is accessed by commands such as Select or Insert. We will use a view of the Orders table called Entryorders to insert rows into the Orders table. Create the Orders table, so that SYSDATE is automatically inserted for odate if no value is given. Then create the Entryorders view so that no values can be given.

CREATE TABLE Orders1 (Onum INT PRIMARY KEY, Amt DECIMAL(10,2), Odate TIMESTAMP DEFAULT CURRENT_TIMESTAMP, Cnum INT,Snum INT);

CREATE VIEW Entryorders AS

SELECT Onum, Amt, Cnum, Snum

FROM Orders:

INSERT INTO Entryorders (Onum, Amt, Cnum, Snum)

VALUES (3012, 2500.00, 2005, 1003);

Select * from Entryorders;

Assignment - 21

Grant and Revoke.

1) Give Amit the right to change the ratings of the customers.

GRANT UPDATE (rating) ON Customers TO 'Amit'@'your_host';

2) Give Manoj the right to give other users the right to query the Orders table.

GRANT SELECT ON Orders TO 'Manoj'@'localhost';

3) Take the INSERT privilege on Salespeople away from Ajita.

If user nahi hai to user bano

REVOKE INSERT ON Salespeople FROM 'Ajita'@'localhost';

4) Grant Abhijeet the right to insert or update the Customers table while keeping her possible rating values in the range of 100 to 500.

GRANT INSERT, UPDATE ON Customers TO 'Abhijeet'@'localhost';

5) Allow Vikram to query the Customers table, but restrict his access to those customers whose rating is the lowest.

CREATE VIEW LowestRatedCustomers AS

SELECT * FROM Customers

WHERE rating = (SELECT MIN(rating) FROM Customers);

GRANT SELECT ON LowestRatedCustomers TO 'Vikram'@'localhost';