DBMS SKILL-6 PRELAB

1. How to use Auto Increment in SQL?

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number to be generated automatically when a new record is inserted into a table.

often this is the primary key field that we would like to be created automatically every time a new necord is inserted

Example:-

Create table persons (personid int NOTNULL AUTO_INCREMENT, lastname varchar(255), firstname varchar(255), age int, primary key (personid));

My SOL uses AUTO-INCREMENT keyword to
perform an Auto-increment feature.

By default, the stabling value for AUTO-INCR
-EMENT is 1, and it will increment by
I for each new record.

2. What is embedded and dynamic SQL?

2. Embedded/s-latic SOL

It is those sol statements that one fixed and can't be changed at runtime in an application. These statements are compiled at the compile-time only. The benefit of using this statement is that you know the poth of execution of statements because you have the sol statements with you, so you can optimize your sol query and can execute the query in the best and fastest possible way. The way of accessing data is predefined and these static sol statements are generally used on those databases that are uniformly distributed

Dynamic SOL

These are those soi statements that are created or executed at run-time. The users can execute their own query in some application. These statements are compiled at run-time. These kind of soi statements are used when there is a non-uniformity in the data stored in the database. It is more flexible as

CS compared to static sql.

- 3. What is meant by ALIAS in SQL?
 - 3. Aliases are the temporary name given to table or column for the purpose of a particular sol query. It is used when name of column or table is used other than their original names, but the modified name is only temporary.
 - -) Aliases are created to make table or columns names more readable
 - → Alianes are useful when table or column names are big or not very reada ble.
 - -> These are preferred when there are more than one table involved in a query.
- 6 Which operator has the highest precedence among the following AND, NOT, OR?
 - 6. Highest precedence among AND, NOT, OR is "NOT"
- 4 While executing certain commands Mr.Jack is confused to decide whether View is a logical storage or physical storage. State him an appropriate solution with a valid reason?

view is a logical storage: 4. Views are a special version of tables in sol. They provide a virtual table environment for various complex operations you can select data from multiple tables, or you can select specific data based on certain criteria in views. It does not hold actual data; it holds only the defini -tion of the view in the data dictionary It does not use physical memory only the query is stored in the data dictionary, it is computed dynamically wherever the user performs any query on it changes made at any point in view are reflected in the actual base table

The view has primarily two purposes:

- 1) simplify complex soc queries
 - 2) provides restriction to users from accessing sensitive data

⁵ How to build authentication to a database?

- 5. (1) Your database should now be listed on the left with your other database schemas (2) click Home icon in the top left corner to return to workbencoh central screen. click on Mysol server instance under the server Administrator section of Mysol workbench to create a new database user and assign privileges to your new database
- (3) Click on Users and previleges. Then click on Add account finter login name for the new user, type local host and new pass-word as shown click apply to create the new user account.
- (4) To assign privileges for this user to access a specific database, click on schema privilege tab. click the user account from list of users on the left click on Add entry button
- (5) select the relected schema radio button, and your database schema from the list
- (6) select appropriate privileges to allow the user access the selected database. Click save changes to complete your new user setup
- (7) you can now test your new user logic by using mysor workbench with your newly created user account.

CS Scanned with CamScanner

7 What is DEFAULT?

7. The Mysel DEFAULT keyword is a databa -se constraint or rule that is applied when inserting new records into a table. If the value is not provided to any column while inserting a new row in the table, the default value will be used instead.



INLAB

Implement SQL Queries on Case Study 8 (SAINT GOBAIN)

QUOTATION:

Cust	Cust_Na	Cust_Phone	Glass_	Glass_	Glass_	Glass_	Address	Exp_	Advance_
_ID	me		Туре	thick	Measure	color		Amt	Paid
1	Raju	8767895698	Clear glass	4MM	140CM	Black	Hyd	10000	2000
2	Hari	9999887766	Mirror	5MM	150CM	Blue	Delhi	11000	2500
3	Arun	7567896546	Clear glass	6MM	120CM	Black	Mumbai	9000	1000
4	Kiran	6754567890	Mirror	3MM	200CM	Blue	Hyd	20000	5000
5	Chand	7164567897	Mirror	4MM	120CM	Blue	Hyd	15000	6000

BILL:

Bill_ID	Cust_Name	Cust_Phone	Address	Glass_Feature	Mode_Pay
100	Raju	8767895698	Hyd	Good	Cash
101	Hari	9999887766	Delhi	Good	Credit
102	Arun	7567896546	Mumbai	Good	Cash
103	Kiran	6754567890	Hyd	Good	Cash
104	Chand	7164567897	Hyd	Good	Cash

1) Create tables with the required constraints for the given case study **QUOTATION**

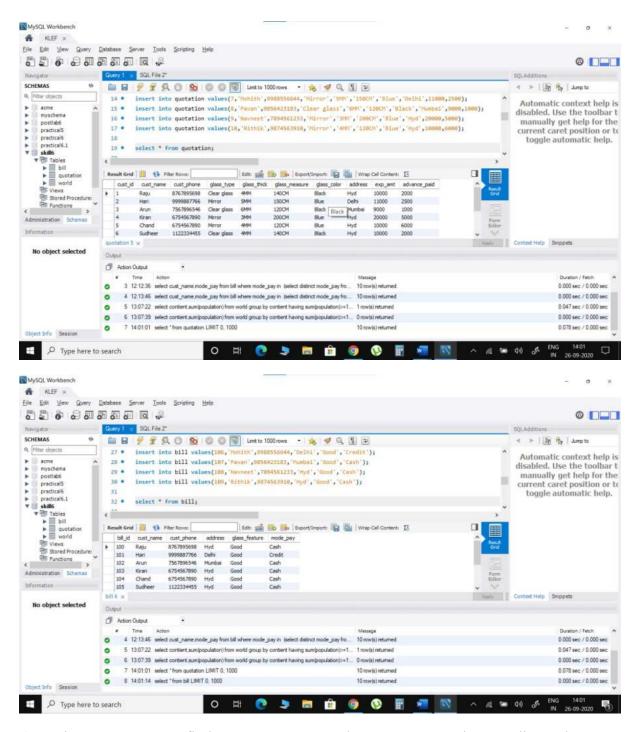
create table quotation(cust_id int primary key,cust_name varchar(30),cust_phone bigint,glass_type varchar(30),glass_thick varchar(10),glass_measure varchar(10),glass_color varchar(10),address varchar(50),exp_amt int,advance_paid int);

BILL

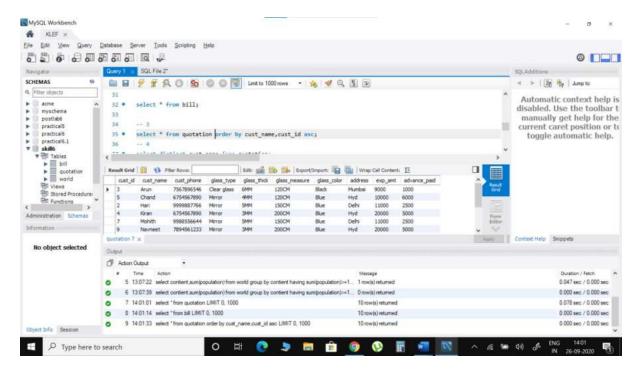
create table bill(bill_id int primary key,cust_name varchar(30),cust_phone bigint, address varchar(50),glass_feature varchar(20),mode_pay varchar(20));

2) Insert 10 records into the created tables

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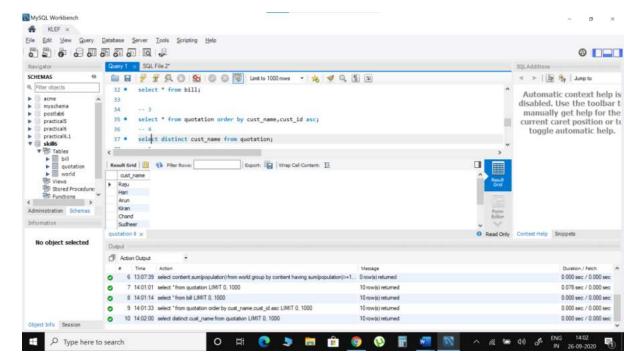


3) Write a SQL query to find out Customer ID and Customer Name in ascending order. select * from quotation order by cust_name,cust_id asc;

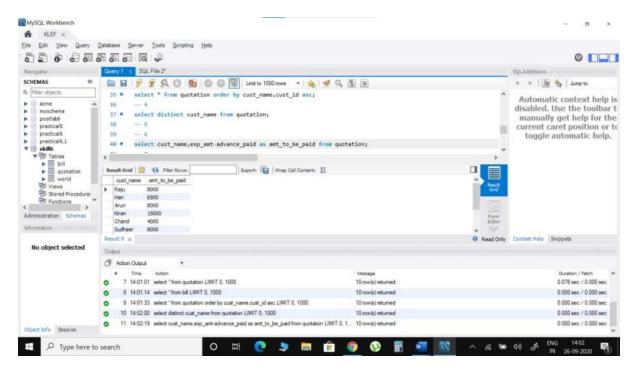


4) Find unique Customer Name in the Quotation table.

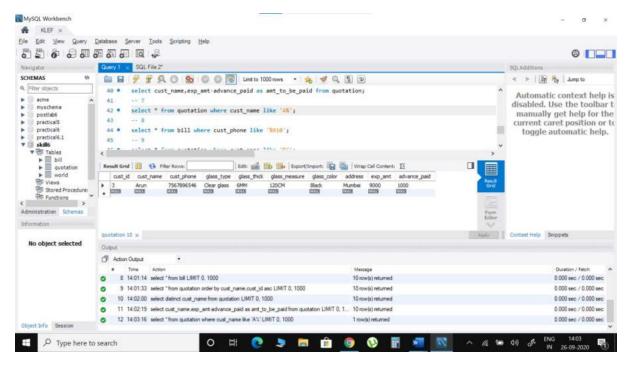
select distinct cust name from quotation;



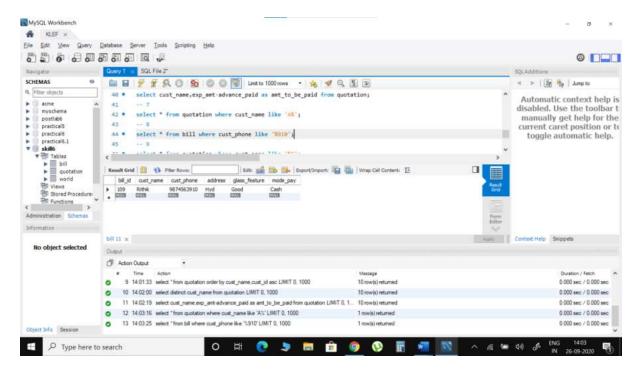
- 5) SQL query to find the Glass Thickness where number of Customer of highest thickness.
- 6) Write a SQL query to find out the amount has to paid by the customer in Quotation Table. select cust_name,exp_amt-advance_paid as amt_to_be_paid from quotation;



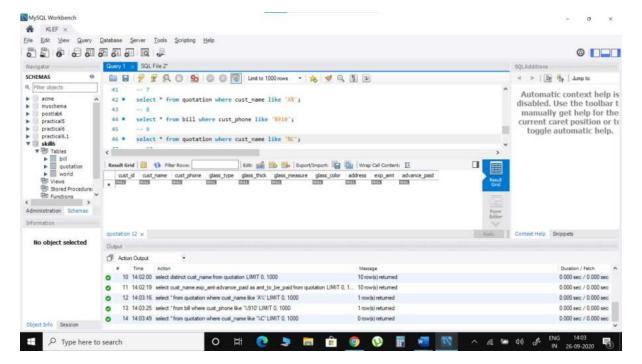
7) Write a SQL query to list the name of those whose name starts with 'A' in Quotation Table. select * from quotation where cust name like 'A%';



8) Write a SQL query to list the Phone no. that ends with "910" in the Bill table. select * from bill where cust phone like '%910';

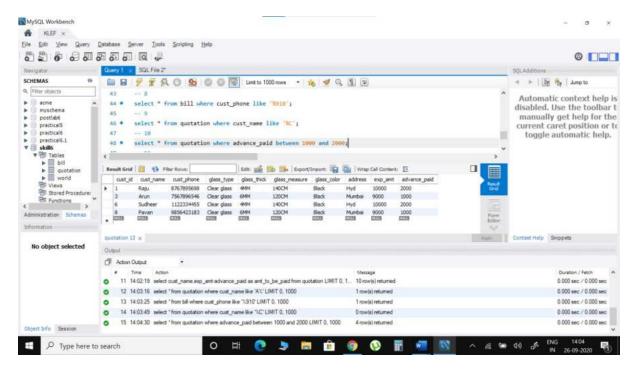


9) Write an SQL query to print details of the Customer whose Name ends with 'C' select * from quotation where cust name like '%C';



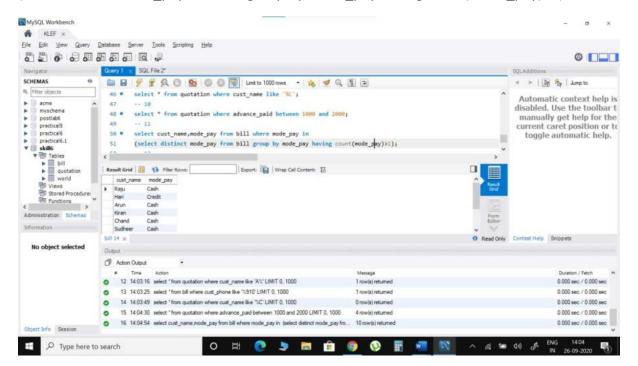
10) Write an SQL query to print details of the customers whose advance paid lies between 1000 and 2000.

select * from quotation where advance paid between 1000 and 2000;



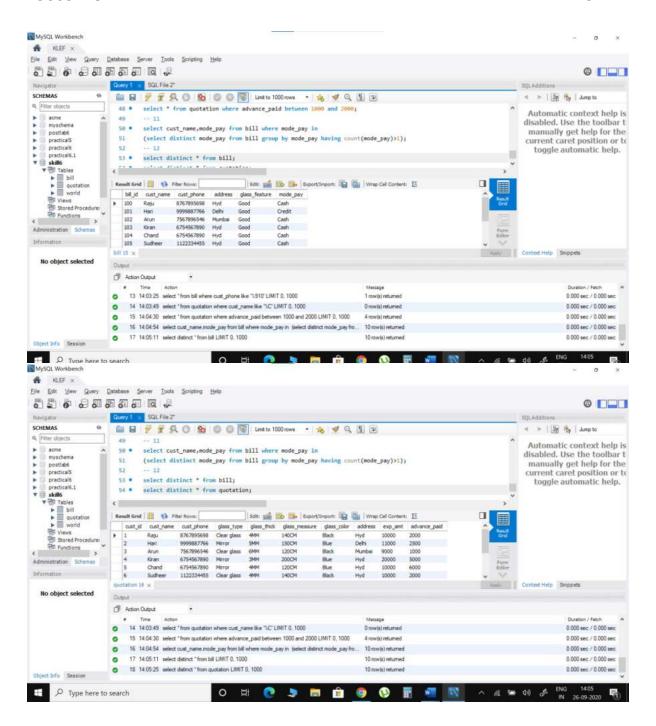
11) Write an SQL query to fetch the list of customers with the same Mode of payment. select cust_name,mode_pay from bill where mode_pay in

(select distinct mode pay from bill group by mode pay having count(mode pay)>1);



12) Write an SQL query to fetch the Unique records in Quotation and Bill Table select distinct * from bill; select distinct * from quotation;

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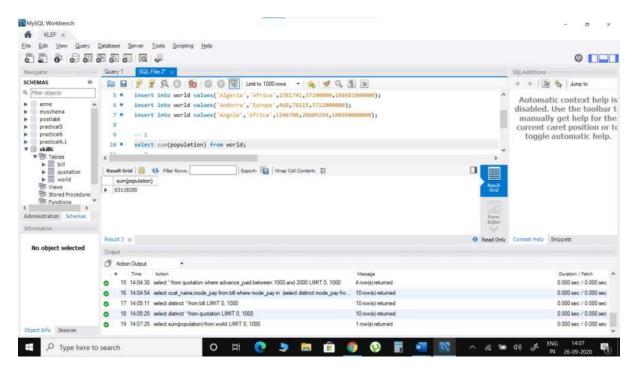
P	OS	TL	AB
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name	continent	area	population	gdp
Afghanistan	Asia	652230	25500100	20343000000
Albania	Europe	28748	2831741	12960000000
Algeria	Africa	2381741	37100000	188681000000
Andorra	Europe	468	78115	3712000000
Angola	Africa	1246700	20609294	100990000000

create table world (name varchar(50),contient varchar(50),area int,population bigint,gdp bigint);

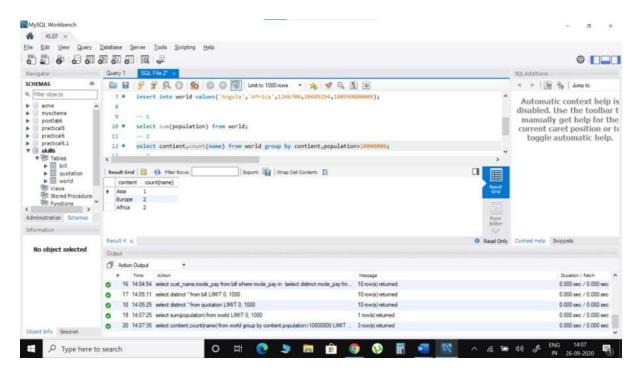
insert into world values('Afghanistan','Asia',652230,2500100,20343000000); insert into world values('Albania','Europe',28748,2831741,12960000000); insert into world values('Algeria','Africa',2381741,37100000,188681000000); insert into world values('Andorra','Europe',468,78115,3712000000); insert into world values('Angola','Africa',1246700,20609294,100990000000);

1) Show the total population of the world. World (name, continent, area, population, gdp) select sum(population) from world;

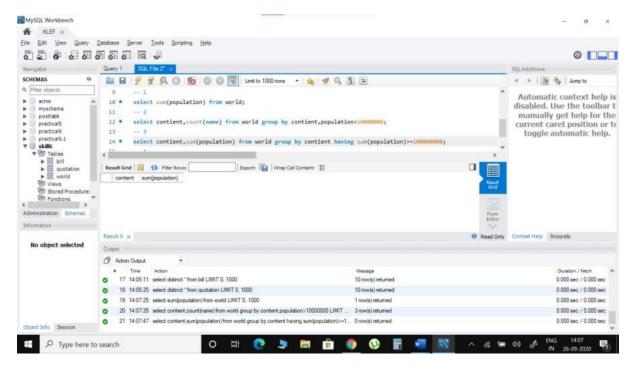


2) For each continent show the continent and number of countries with populations of at least 10 million.

select contient, count(name) from world group by contient, population>10000000;



3) List the continents that have a total population of at least 100 million. select contient, sum(population) from world group by contient having sum(population)>=100000000;



4) Display the list of continents in the world select distinct contient from world;

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