**/\*1.To gain a comprehensive understanding of the factors influencing hospitalization costs, it is necessary to combine the tables provided. Merge the two tables by first identifying the**

**columns in the data tables that will help you in merging.**

**a. In both tables, add a Primary Key constraint for these columns**

**Hint:You can remove duplicates and null values from the column and then use ALTER TABLE to add a Primary Key constraint.\*/**

create database healthcare ;

use healthcare;

select \* from hospitalisation\_details;

select \* from medical\_examinations ;

-- Lets Deal with the null value.

SET SQL\_SAFE\_UPDATES = 0;

delete from hospitalisation\_details where `Customer ID`='?';

delete from hospitalisation\_details where `State ID`='?';

delete from hospitalisation\_details where `City tier`='?';

-- Now lets assign the primary key to the column in the table.

ALTER TABLE healthcare.hospitalisation\_details

CHANGE COLUMN `Customer ID` `Customer ID` varchar(20),

ADD PRIMARY KEY (`Customer ID`);

ALTER TABLE healthcare.medical\_examinations

CHANGE COLUMN `Customer ID` `Customer ID` varchar(20),

ADD PRIMARY KEY (`Customer ID`);

-- Now lets merge the both table for better understanding of hospitalisation cost.

select \* from hospitalisation\_details h

inner join medical\_examinations m

on h.`Customer ID`= m.`Customer ID`;

**/\* Question No:-2. Retrieve information about people who are diabetic and have heart problems with their average age,**

**the average number of dependent children, average BMI, and average hospitalization costs \*/**

select m.HBA1C , m.`Heart Issues` , avg(h.children) , avg(m.BMI) , avg(h.charges)

from healthcare.hospitalisation\_details h

inner join healthcare.medical\_examinations m

on h.`Customer ID` = m.`Customer ID`

where m.HBA1C > 6.5 and m.`Heart Issues` = 'yes';

**/\* Question NO.3:- Find the average hospitalization cost for each hospital tier and each city level.\*/**

select `Hospital tier` , `City tier`, avg(charges) as Hospitalization\_Cost

from healthcare.hospitalisation\_details

group by `Hospital tier` , `City tier`;

**/\* Question No4:- Determine the number of people who have had major surgery with a history of cancer. \*/**

select count(NumberOfMajorSurgeries) as major\_surgery\_count

from healthcare.medical\_examinations

where `Cancer history` = 'Yes';

**/\* Question No5:- Determine the number of tier-1 hospitals in each state. \*/**

select `State ID`,count(`Hospital tier`) as No\_Tier1\_Hos

from healthcare.hospitalisation\_details

where `Hospital tier` = 'tier - 1'

group by `State ID`;