```
use employee;

-- null values checking and deletion


select * from hospitalisationdetails where `State ID`='?' or `City tier`='?' or
`Hospital tier`='?' or `charges`='?' or `month`='?' or `Customer ID`='?'
or `year`='?';
delete from hospitalisationdetails where `State ID`='?' or `City tier`='?' or
`Hospital tier`='?' or `month`='?' or `Customer ID`='?';
select * from medicalexaminations where `smoker`='?';
delete from medicalexaminations where `smoker`='?';


-- Primary Key addition in each tables


alter table hospitalisationdetails add primary key (`Customer ID`(25));
alter table medicalexaminations add primary key (`Customer ID`(25));


-- Merging of the tables


select h.`Customer ID`,h.year,h.month,h.date,h.children,h.charges,h.`Hospital
tier`,h.`City tier`,h.`State ID`,m.BMI,m.HBA1C,m.`Heart Issues`,m.`Any
Transplants`,m.`Cancer history`,
m.NumberOfMajorSurgeries,m.smoker from hospitalisationdetails h inner join
medicalexaminations m on h.`Customer ID`=m.`Customer ID`;

create table mergedata as
select h.`Customer ID`,h.year,h.month,h.date,h.children,h.charges,h.`Hospital
tier`,h.`City tier`,h.`State ID`,m.BMI,m.HBA1C,m.`Heart Issues`,m.`Any
Transplants`,m.`Cancer history`,
m.NumberOfMajorSurgeries,m.smoker from hospitalisationdetails h inner join
medicalexaminations m on h.`Customer ID`=m.`Customer ID`;

select * from mergedata;


update mergedata
  set month=CASE
  WHEN month = 'Jan' THEN 1
  WHEN month = 'Feb' THEN 2
  WHEN month = 'Mar' THEN 3
  WHEN month = 'Apr' THEN 4
  WHEN month = 'May' THEN 5
  WHEN month = 'Jun' THEN 6
  WHEN month = 'Jul' THEN 7
  WHEN month = 'Aug' THEN 8
  WHEN month = 'Sep' THEN 9
    WHEN month = 'Oct' THEN 10
    WHEN month = 'Nov' THEN 11
    WHEN month = 'Dec' THEN 12
    -- Add other months as needed
    ELSE NULL
    end;


-- Age Calculation

select FLOOR(DATEDIFF(CURDATE(),STR_TO_DATE(CONCAT(year, '-', month, '-', date),
'%Y-%m-%d')) /365.25) AS Age from mergedata;
```

```
select avg(FLOOR(DATEDIFF(CURDATE(),STR_TO_DATE(CONCAT(year, '-', month, '-', date), '%Y-%m-%d')) /365.25)) AS Average_Age from mergedata;



-- 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 `Customer ID`,avg(FLOOR(DATEDIFF(CURDATE(),STR_TO_DATE(CONCAT(year, '-', month, '-', date), '%Y-%m-%d')) /365.25)) AS Average_Age,avg(children) as Avgchildren,avg(charges) as asvgcharges,
avg(BMI) as avgBMI from mergedata where HBA1C>6.5 and `Heart Issues`='yes' group by `Customer ID`;


-- the average hospitalization cost for each hospital tier and each city level

select `Hospital tier`,avg(charges) as hospitalisationCost from mergedata group by `Hospital tier`;
select `City tier`,avg(charges) as hospitalisationCost from mergedata group by `City tier`;


-- the number of people who have had major surgery with a history of cancer

select count(*) as NumberOfPeople from mergedata where
`NumberOfMajorSurgeries`>0 and `Cancer history`='Yes';

-- the number of tier-1 hospitals in each state

select distinct `State ID` from mergedata;

select `State ID`,count(*) as CountOF1tier from mergedata where `Hospital tier`='tier - 1' group by `State ID`
```