**SQL Hackathon Feb\_2023 Questions**

**Notes:**

* All questions having “a list of patients” must display Firstname and Lastname in the output.
* Please refer Data Definition Document for column description and ranges.

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| 1. Display any 10 random DM patients. | |
| 1. Please go through the below screenshot and create the exact output. | |
| 1. Write a query to get a list of patients whose RPE start is at moderate intensity. | |
| 1. Write a query by using common table expressions and case statements to display birthyear ranges. | |
| 1. Display DM patient names with highest day MAP and night MAP (without using limit). | |
| 1. Create view on table Lab Test by selecting some columns and filter data using Where condition. | |
| 1. Display a list of Patient IDs and their Group whose diabetes duration is greater than 10 years. | |
| 1. Write a query to list male patient ids and their names who are above 40 years of age and less than 60 years and have Day BloodPressureSystolic above 120 and Day BloodPressureDiastolic above 80. | |
| 1. Use a function to calculate the percentage of patients according to the lab visited per month. | |
| 1. Count of patients by first letter of firstname. |
| 1. write a query to get the list of patients whose lipid test value is null. | |
| 1. Create a stored procedure to make user ids for the given patient id. | |
| 1. Show the position of the letter 'r' in the Patient's name. | |
| 1. Calculate the patient's birth year in descending order. | |
| 1. Find the patients that have eye damage due to diabetes. | |
| 1. Query to classify Gait RPE End into 5 categories as per the intensity. (Hint: Use of CASE statement) | |
| 1. Create view on patient table with check constraint condition. | |
| 1. Calculate the patient's current age. | |
| 1. Write a query to display Mr. or Ms. as prefix to patients’ names with respect to gender. | |
| 1. Write a query to get DM patient names whose distance is greater than 400 and speed is greater than 1. | |
| 1. Create a trigger to raise notice and prevent the deletion of a record from a view. | |
| 1. Select the patient's full name with a name starting with 's' followed by any character, followed by 'r', followed by any character, followed by b. | |
| 1. write a query to get which race has the maximum number of Diabetic patients. | |
| 1. Identify the patient count by Gender and Race combination. | |
| 1. Get the number of patients in the year 2005 in each of the Genesis and Cultivate labs. | |
| 1. Write a query to get a list of patient IDs' and their Fasting Cholesterol in February 2006. | |
| 1. Write a query to get a list of patients whose first names is starting with the letter T. | |
| 1. Find a list of Male patients whose age is more than 60 whose, BMI is more than 18.5, and whose height is more than e 1.5 M. | |
| 1. Display the patient names and ages whose age is more than 60 years. | |
| 1. Write a query to get the number of patients who visited the Lab between 9 am to 12 am. | |
| 1. Write a trigger that calls a function, for checking space and case for two columns or more before you add new data to a table. | |
| 1. Display the first 6 characters of the lab names. | |
| 1. Write a query to create a table to get patients’ demographic details whose birth year is 1939. Name the table as “Patient\_Detail” | |
| 1. Write a query to get the number of patients above age 50 in each group | |
| 1. Write a query to find the number of patients visited each month. (Display with month Name) | |
| 1. Write a query to get a number of visual/motor dementia patients who have any 2 abnormal conditions. (Display with condition name). (dementia/cognitive impairment: any patient who has any two abnormal test results). 2. Write a query to get a list of patient IDs whose fasting glucose is 80, 85, and 89. | |
| 1. calculate the difference between Day and night HR. (Display 2 decimal only) | |
| 1. Find out the tables where column Patient\_ID is present. (Display column position number with respective table also) | |
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| 1. Display the first name and Last name of patients whose Race is Latino. | |
| 1. write a query to get the number of patients whose urine creatinine is in a normal range (Gender wise). | |
| 1. Write a query to update id LB002 with the lab name Cultivate Lab. | |
| 1. Create an index on any table and use explain analyze to show differences if any. | |
| 1. Write a query to split the lab visit date into two different columns lab\_visit\_date and lab\_visit\_time. | |
| 1. Please go through the below screenshot and create the exact output. | |
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| 1. Calculate the Number of Diabetic Male and Female patients who are Anemic. | |
| 1. Write a query to display the Patient\_ID, last name, and the position of the substring 'an' in the last name column for those patients who have a substring 'an'. | |
| 1. List of patients from rows 30-40 without using the where condition. | |
| 1. Find all patients whose last name contains the text either Mc or Bu using Regular expression matches. | |
| 1. Create materialized view with no data, to display no of male and female patients. | |
| 1. Get a list of unique lab names whose names is starting with G and end with b. | |
| 1. Write the query to create an Index on table Verbal\_Cognitive by selecting a column and also write the query drop the same index. 2. Get the number of patients born in a leap year. | |
| 1. Write a query to get a list of patient IDs from the DM group and above age 60 in sequence. | |
| 1. Find the patient who has the most damage in the eyes with the use of a max function. | |
| 1. Create a procedure for checking if Race exists using an if else statement. | |
| 1. Write a query to get a list of female patients who are at risk of heart diseases with the help of Fasting HDL. | |
| 1. Create a role via query. 2. Query to list all the users in the DB. | |
| 1. Write a query using the trigger after insert on the lab test table. If the patient has abnormal HbA1C and fasting glucose values. | |
| 1. write a query to get the number of patients for each age bin without using the CASE statement.(Bin size - 5) | |
| 1. Write a query to get the number of patients who have normal platelets for each group. | |
| 1. Create a trigger on a view of the Blood Pressure table. | |
| 1. Write a query to find the number of Patients whose Gait RPE start is greater than the end and vice versa. (Display exact output as shown below) | |
| 1. Create a view without using any schema or table and check the created view using a select statement. | |
| 1. Display patients names who have the same last name. | |
| 1. Write a query to get the Sum of Diabetes Duration for Group id 'GRP\_02'. | |
| 1. Write a query to get a patient name who has a chance to have kidney disease with Albumin. | |
| 1. Get the patient's name who has a max speed. | |
| 1. Write a query to find out the percentage of Lab visits by Lab names. | |
| 1. Write a query to get Patient IDs for verbally cognitively impaired who satisfy any 2 conditions. (HINT: dementia/cognitive impaired: any patient who has any two abnormal test results). | |
| 1. Display a list of patients who are memory cognitively impaired with the GDS test and whose diabetes duration is between 5 to 30. | |
| 1. Write a query to the get number of Patient\_IDs who visited between March 2005 and March 2006 | |
| 1. Get the number of patients who visited each lab using the windows function. | |
| 1. Find the number of control and DM patients who visited each lab. | |
| 1. Please go through the below screenshot and create the exact output. | |
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| 1. Write a query to get comma-separated values of patient details .(Use a maximum of 6 columns from different tables) | |
| 1. Write a query to determine get the Patient IDs ,in DM and Control groups ,that are in prediabetic stage and label them accordingly. | |
| 1. Calculate the Patient's Daytime MAP and Nighttime MAP. 2. Write a query using recursive view. | |