

Experion ILP-Batch 1

Task 3

26. Online Child Vaccination Booking

- a. List all the Children who have taken “MMR” vaccine from Jan 2023 to May 2023

```
mysql> SELECT Child.ChildId, Child.ChildFirstName, Child.ChildLastName, Child.Gender, Child.DOB,
-> Vaccine_Category.VaccineName, CVM.DateVaccinated FROM Child
-> JOIN Parent_Child_Mapping PCM ON Child.ChildId = PCM.ChildId
-> JOIN Booking B ON PCM.Parent_Child_Id = B.Parent_Child_Id
-> JOIN Vaccine_Category_Mapping VCM ON B.Vaccine_Category_Id = VCM.Vaccine_Category_Id
-> JOIN Vaccine_Category ON VCM.CategoryId = Vaccine_Category.Category_Id
-> JOIN Vaccine ON VCM.VaccineId = Vaccine.VaccineId
-> JOIN Child_Vaccine_Mapping CVM ON B.BookingId = CVM.BookingId
-> WHERE Vaccine_Category.VaccineName = 'MMR' AND CVM.DateVaccinated BETWEEN '2023-01-01' AND '2023-05-31';
+-----+-----+-----+-----+-----+-----+-----+
| ChildId | ChildFirstName | ChildLastName | Gender | DOB          | VaccineName | DateVaccinated |
+-----+-----+-----+-----+-----+-----+-----+
| 1       | Child 1       | Lastname1     | Male   | 2020-01-01   | MMR         | 2023-01-15     |
+-----+-----+-----+-----+-----+-----+-----+
1 row in set (0.00 sec)
```

- b. List the health centers that have given maximum no of vaccines in 2023.

```
mysql> WITH VaccineCounts AS (SELECT HC.CenterId, HC.CenterName, COUNT(CVM.Child_Vaccine_Id) AS TotalVaccinesGiven,
-> MAX(COUNT(CVM.Child_Vaccine_Id)) OVER () AS MaxVaccineCount FROM Healthcenter HC
-> JOIN HealthCenter_Location_Mapping HCLM ON HC.CenterId = HCLM.CenterId
-> JOIN Worker_Center_Mapping WCM ON HCLM.HealthCenter_Location_Id = WCM.HealthCenter_Location_Id
-> JOIN Child_Vaccine_Mapping CVM ON WCM.Worker_Center_Id = CVM.Worker_Center_Id
-> WHERE CVM.DateVaccinated BETWEEN '2023-01-01' AND '2023-12-31' AND CVM.Status = 'Y'
-> GROUP BY HC.CenterId, HC.CenterName) SELECT CenterId, CenterName, TotalVaccinesGiven
-> FROM VaccineCounts WHERE TotalVaccinesGiven = MaxVaccineCount
-> ORDER BY TotalVaccinesGiven DESC;
+-----+-----+-----+
| CenterId | CenterName      | TotalVaccinesGiven |
+-----+-----+-----+
| 1       | Health Center 1 | 2                 |
+-----+-----+-----+
1 row in set (0.00 sec)
```