After Executing database_SQL_INIT & Populating_Database:

| TEACHER_ID | SUBJECT | FIRST_NAME | LAST_NAME | CONTACT_INFO_ID |
|---|---|---|---|---|
| 77433 | Mathematics | Fatma | Alfadhli | 1 |
| 70158 | English | Sara | Shamouh | 2 |
| 69543 | Geography | Maram | Alotaibi | 5 |

**Teacher Table**

| CLASS_ID | NAME | GRADE | FROM_DAY | TO_DAY | FROM_HOUR | TO_HOUR |
|---|---|---|---|---|---|---|
| 1 | Math 101 | Grade 1 | Monday | Friday | 08:00 | 09:00 |
| 2 | English 101 | Grade 2 | Monday | Friday | 09:00 | 10:00 |

**Class Table**

| ENROLLMENT_ID | TEACHER_ID | CLASS_ID |
|---|---|---|
| 1 | 77433 | 1 |
| 2 | 70158 | 2 |

**Coordination**

| EMAIL | CONTACT_INFO_ID |
|---|---|
| jane.smith@example.com | 2 |
| john.doe@example.com | 1 |

**Email**

| PHONE_NUMBER | CONTACT_INFO_ID |
|---|---|
| 1234567890 | 1 |
| 9876543210 | 2 |

**Phone**

| ZIP | CONTACT_INFO_ID | APARTMENT_NUMBER | CITY | BUILDING_NUMBER | STREET |
|---|---|---|---|---|---|
| 12345 | 1 | - | Springfield | - | 123 Main St |
| 54321 | 2 | - | Rivertown | - | 456 Oak Ave |

**Address**

| STUDENT_ID | CONTACT_INFO_ID |
|---|---|
| 1 | 1 |
| 1 | 3 |
| 2 | 2 |
| 2 | 4 |

**Student_Contacts**

| EVENT_ID | EVENT_DATE | EVENT_TIME | DESCRIPTION |
|---|---|---|---|
| 1 | 15-JUL-24 | 14:00 | School Open House |
| 2 | 01-AUG-24 | 10:00 | Parent-Teacher Conference |
| 3 | 15-SEP-24 | 15:00 | Science Fair |
| 4 | 01-OCT-24 | 09:30 | Annual Sports Day |

**Event**

| TEACHER_ID | EVENT_ID |
|---|---|
| 70158 | 2 |
| 77433 | 1 |
| 77433 | 3 |
| 77433 | 4 |

**Organize**

| LOCATION_ID | EVENT_ID | HALL_NUMBER |
|---|---|---|
| 1 | 1 | 1 |
| 2 | 2 | 2 |

**Location**

| STUDENT_ID | GRADE | FIRST_NAME | LAST_NAME |
|---|---|---|---|
| 1 | 1 | Alice | Johnson |
| 2 | 2 | Bob | Smith |

**Student**

## Queries Resutls:

### First SELECT Query:

| TEACHER_ID | FIRST_NAME | LAST_NAME | SUBJECT | CONTACT_INFO_ID | EMAIL | PHONE_NUMBER | STREET | CITY | ZIP |
|---|---|---|---|---|---|---|---|---|---|
| 77433 | Fatma | Alfadhli | Mathematics | 1 | john.doe@example.com | 1234567890 | 123 Main St | Springfield | 12345 |
| 70158 | Sara | Shamouh | English | 2 | jane.smith@example.com | 9876543210 | 456 Oak Ave | Rivertown | 54321 |
| 69543 | Maram | Alotaibi | Geography | 5 | - | - | - | - | - |

**Note:** There is no constraint enforcing that each `contact_ID` must have all details filled. However, there is a constraint enforcing the opposite: all contact details for any record must be indexed by a `contact_ID`. If we wish to ensure that contact information is provided for each person, it would be more effective to implement this requirement at the application layer by preventing users from submitting forms unless all required contact information is completed.

### Second SELECT Query:

| TEACHER_ID | FIRST_NAME | LAST_NAME | EVENT_ID | EVENT_DATE | EVENT_TIME | DESCRIPTION |
|---|---|---|---|---|---|---|
| 77433 | Fatma | Alfadhli | 1 | 15-JUL-24 | 14:00 | School Open House |
| 70158 | Sara | Shamouh | 2 | 01-AUG-24 | 10:00 | Parent-Teacher Conference |
| 77433 | Fatma | Alfadhli | 3 | 15-SEP-24 | 15:00 | Science Fair |
| 77433 | Fatma | Alfadhli | 4 | 01-OCT-24 | 09:30 | Annual Sports Day |

### Third SELECT Query

| NUM_STUDENTS_WITH_MULTIPLE_CONTACTS |
|---|
| 2 |