**Student Details**

| Repository Name | DBS25P048 |
| --- | --- |
| Registration Number | 2024-CS-48 |

|  |  |
| --- | --- |
| ***Project*** |  |
| Project Title | ITEC Event Management System |
| Executive Summary | *The ITEC Event Management System is a centralized desktop application developed to streamline the organization of annual ITEC events at the Department of Computer Science, UET Lahore. The system replaces manual processes involving spreadsheets and physical records, addressing critical challenges such as:*   * ***Data Inconsistency****: Automates participant registration, committee assignments, and financial tracking.* * ***Efficiency****: Provides tools for scheduling events, allocating venues, and managing duties.* * ***Reporting****: Generates real-time reports for participants, finances, and event schedules.*   *Built using****C# WinForms****and****MySQL****, the application follows a 3-tier architecture (UI, BL, DL) with direct SQL queries for database operations (no Entity Framework). Key features include:*   * *Multi-edition event management* * *Dynamic financial tracking (income/expenses)* * *Conflict-free venue allocation* * *Automated report generation*   *The system adheres to strict schema guidelines and uses a normalized database with 15+ tables (committees, participants, finances, etc.).* |

|  |  |
| --- | --- |
| ***Interface Name*** | EventsManageUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | cmbItec | Combo Box | EventsManageUC.cs | SELECT itec\_id, year FROM itec\_editions | | cmbCategory | Combo Box | EventsManageUC.cs | SELECT event\_category\_id, category\_name FROM event\_categories | | cmbVenue | Combo Box | EventsManageUC.cs | SELECT venue\_id, venue\_name FROM venues | | UpdateBtn | Button | EventsManageUC.cs | $@"UPDATE itec\_events  SET itec\_id={updatedEvent.ItecId},  event\_name  ='{updatedEvent.EventName}',  event\_category\_id ={updatedEvent.EventCategoryId},  description  = '{updatedEvent.Description}',  event\_date  = '{updatedEvent.EventDate:yyyy-MM-dd}',  venue\_id ={updatedEvent.VenueId},  committee\_id  = {updatedEvent.CommitteeId}  WHERE event\_id = {updatedEvent.EventId}" | | cmbCommittee | Combo Box | EventsManageUC.cs | SELECT committee\_id, committee\_name FROM committees | | AddBtn | Button | EventsManageUC.cs | $@"INSERT INTO itec\_events  (itec\_id, event\_name, event\_category\_id, description, event\_date, venue\_id, committee\_id)  VALUES ({newEvent.ItecId}, '{newEvent.EventName}', {newEvent.EventCategoryId}, '{newEvent.Description}', '{newEvent.EventDate:yyyy-MM-dd}', {newEvent.VenueId}, {newEvent.CommitteeId})" | | DataGridView1 | DataGridView | EventsManageUC.cs | @"SELECT e.event\_id, e.itec\_id, e.event\_name, e.event\_category\_id,e.description,e.event\_date, e.venue\_id,e.committee\_id,ie.year as itec\_year, ec.category\_name as event\_category\_name, v.venue\_name,c.committee\_name  FROM itec\_events e  LEFT JOIN itec\_editions ie on e.itec\_id = ie.itec\_id  LEFT JOIN event\_categories ec on e.event\_category\_id = ec.event\_category\_id  LEFT JOIN venues v on e.venue\_id = v.venue\_id  LEFT JOIN committees c on e.committee\_id =c.committee\_id" | | DeleteBtn | Button | EventsManageUC.cs | $"DELETE FROM itec\_events WHERE event\_id = {eventId}” | | |

|  |  |
| --- | --- |
| ***Interface Name*** | EventsParticipantUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | EventsParticipantsUC.cs | $@" INSERT INTO event\_participants  (event\_id, participant\_id, payment\_status\_id, fee\_amount)  VALUES  ({participant.EventId}, {participant.ParticipantId}, {participant.PaymentStatusId}, {participant.FeeAmount})" | | UpdateBtn | Button | EventsParticipantsUC.cs | $@"  UPDATE event\_participants  SET event\_id = {participant.EventId},  participant\_id = {participant.ParticipantId},  payment\_status\_id = {participant.PaymentStatusId},  fee\_amount = {participant.FeeAmount}  WHERE registration\_id = {participant.RegistrationId}" | | DeleteBtn | Button | EventsParticipantsUC.cs | $"DELETE FROM event\_participants WHERE registration\_id = {registrationId}" | | cmbEvent | Combo Box | EventsParticipantsUC.cs | "SELECT event\_id, event\_name FROM itec\_events" | | cmbParticipant | Combo Box | EventsParticipantsUC.cs | "SELECT participant\_id, name FROM participants" | | cmbStatus | Combo Box | EventsParticipantsUC.cs | "SELECT lookup\_id, value FROM lookup WHERE category = 'PaymentStatus'" | | DataGridView1 | DataGridView | EventsParticipantsUC.cs | @" SELECT ep.registration\_id, ep.event\_id, ep.participant\_id, ep.payment\_status\_id, ep.fee\_amount,  e.event\_name, p.name AS participant\_name, l.value as payment\_status  FROM event\_participants ep  LEFT JOIN itec\_events e on ep.event\_id = e.event\_id  LEFT JOIN participants p on ep.participant\_id = p.participant\_id  LEFT JOIN lookup l on ep.payment\_status\_id = l.lookup\_id" | | |

|  |  |
| --- | --- |
| ***Interface Name*** | EventResultsUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | EventsResultsUC.cs | $@"INSERT INTO event\_results  (event\_id, participant\_id, team\_id, position, score, remarks)  VALUES  ({result.EventId}, {participantPart}, {teamPart}, {result.Position}, {result.Score}, '{result.Remarks}')" | | UpdateBtn | Button | EventsResultsUC.cs | $@"UPDATE event\_results  SET event\_id = {result.EventId},  participant\_id = {participantPart},  team\_id = {teamPart},position = {result.Position},score = {result.Score},remarks = '{result.Remarks}'  WHERE result\_id ={result.ResultId}" | | DeleteBtn | Button | EventsResultsUC.cs | $"DELETE FROM event\_results WHERE result\_id = {resultId}" | | cmbEvent | Combo Box | EventsResultsUC.cs | "SELECT event\_id, event\_name FROM itec\_events" | | cmbParticipant | Combo Box | EventsResultsUC.cs | "SELECT participant\_id, name FROM participants" | | cmbTeam | Combo Box | EventsResultsUC.cs | "SELECT team\_id, team\_name FROM teams" | | DataGridView1 | DataGridView | EventsResultsUC.cs | @"SELECT er.result\_id, er.event\_id, er.participant\_id, er.team\_id,  er.position, er.score, er.remarks,  e.event\_name, p.name AS participant\_name, t.team\_name  FROm event\_results er  LEFT JOIN itec\_events e on er.event\_id = e.event\_id  LEFT JOIN participants p on er.participant\_id = p.participant\_id  LEFT JOIN teams t on er.team\_id = t.team\_id" | | |

|  |  |  |
| --- | --- | --- |
| |  |  | | --- | --- | | ***Interface Name*** | ParticipantsUC | |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | ParticipantsUC.cs | $@"INSERT INTO participants  (itec\_id, name, email, contact, institute, role\_id)  VALUES ({participant.ItecId}, '{participant.Name}', '{participant.Email}', '{participant.Contact}',  '{participant.Institute}', {participant.RoleId})" | | UpdateBtn | Button | ParticipantsUC.cs | $@"UPDATE participants  SET itec\_id = {participant.ItecId},  name = '{participant.Name}',  email = '{participant.Email}',  contact = '{participant.Contact}',  institute = '{participant.Institute}',  role\_id = {participant.RoleId}  WHERE participant\_id = {participant.ParticipantId}" | | DeleteBtn | Button | ParticipantsUC.cs | $"DELETE FROM participants WHERE participant\_id = {participantId}" | | cmbItec | Combo box | ParticipantsUC.cs | "SELECT itec\_id, year FROM itec\_editions" | | cmbRole | Combo box | ParticipantsUC.cs | "SELECT role\_id, role\_name FROM roles" | | DataGridView1 | DataGridView | ParticipantsUC.cs | "SELECT  p.participant\_id, p.name, p.itec\_id, ie.year,p.email, p.contact, p.institute, p.role\_id,  r.role\_name as r\_name  FROM participants p  LEFT JOIN roles r on p.role\_id=r.role\_id  LEFT JOIN itec\_editions ie on p.itec\_id=ie.itec\_id " | | |

|  |  |
| --- | --- |
| ***Interface Name*** | VenuesUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | VenuesUC.cs | $@"INSERT INTO venues(venue\_name, capacity, location)  VALUES ('{venue.VenueName}', {venue.Capacity}, '{venue.Location}')" | | UpdateBtn | Button | VenuesUC.cs | $@"UPDATE venues SET venue\_name = '{venue.VenueName}',  capacity = {venue.Capacity},  location = '{venue.Location}'  WHERE venue\_id = {venue.VenueId}" | | DeleteBtn | Button | VenuesUC.cs | $"DELETE FROM venues WHERE venue\_id = {venueId}" | | DataGridView1 | DataGridView | VenuesUC.cs | Venues Table | | |

|  |  |
| --- | --- |
| ***Interface Name*** | VenueAllocationUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | VenueAllocationUC.cs | $@"INSERT INTO venue\_allocations(event\_id, venue\_id, assigned\_date, assigned\_time)  VALUES ({allocation.EventId}, {allocation.VenueId},'{allocation.AssignedDate:yyyy-MM-dd}','{allocation.AssignedTime:hh\\:mm\\:ss}')" | | UpdateBtn | Button | VenueAllocationUC.cs | $@"UPDATE venue\_allocations  SET event\_id = {allocation.EventId},  venue\_id = {allocation.VenueId},  assigned\_date = '{allocation.AssignedDate:  yyyy-MM-dd}', assigned\_time = '{allocation.AssignedTime:hh\\:mm\\:ss}'  WHERE venue\_allocation\_id = {allocation.VenueAllocationId}" | | DeleteBtn | Button | VenueAllocationUC.cs | $"DELETE FROM venue\_allocations WHERE venue\_allocation\_id = {allocationId}" | | cmbEvent | Combo Box | VenueAllocationUC.cs | "SELECT event\_id, event\_name FROM itec\_events" | | cmbVenue | Combo Box | VenueAllocationUC.cs | "SELECT venue\_id, venue\_name FROM venues" | | DataGridView1 | DataGridView | VenueAllocationUC.cs | "SELECT va.venue\_allocation\_id,va.event\_id, va.venue\_id, va.assigned\_date,  va.assigned\_time, v.venue\_name, ie.event\_name  FROM venue\_allocations va  LEFT JOIN venues v on v.venue\_id=va.venue\_id  LEFT JOIN itec\_events ie on ie.event\_id=va.event\_id" | | |

|  |  |
| --- | --- |
| ***Interface Name*** | CommitteeMembersUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | CommitteeMembersUC.cs | $@"INSERT INTO committee\_members (committee\_id, name, role\_id) VALUES ({member.CommitteeId}, '{member.Name}',  {(member.RoleId.HasValue ? member.RoleId.ToString() : "NULL")})" | | UpdateBtn | Button | CommitteeMembersUC.cs | $@"UPDATE committee\_members  SET committee\_id = {member.CommitteeId},  name = '{member.Name}',  role\_id = {(member.RoleId.HasValue ? member.RoleId.ToString() : "NULL")} WHERE member\_id = {member.MemberId}" | | DeleteBtn | Button | CommitteeMembersUC.cs | $"DELETE FROM committee\_members WHERE member\_id = {memberId}" | | cmbCommittee | Combo Box | CommitteeMembersUC.cs | "SELECT event\_id, event\_name FROM itec\_events" | | cmbRole | Combo Box | CommitteeMembersUC.cs | "SELECT participant\_id, name FROM participants" | | DataGridView1 | DataGridView | EventsResultsUC.cs | @"SELECT cm.member\_id, cm.committee\_id, cm.name, cm.role\_id,c.committee\_name, l.value AS role\_name  FROM committee\_members cm  LEFT JOIN committees c on cm.committee\_id = c.committee\_id  LEFT JOIN lookup l on cm.role\_id = l.lookup\_id" e.event\_name, p.name AS participant\_name, t.team\_name  FROm event\_results er  LEFT JOIN itec\_events e on er.event\_id = e.event\_id  LEFT JOIN participants p on er.participant\_id = p.participant\_id  LEFT JOIN teams t on er.team\_id = t.team\_id" | | |

|  |  |
| --- | --- |
| ***Interface Name*** | CommitteesUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | CommitteesUC.cs | $@"INSERT INTO committees  (itec\_id, committee\_name)  VALUES ({newCommittee.ItecId}, '{newCommittee.CommitteeName}')" | | UpdateBtn | Button | CommitteesUC.cs | $@"UPDATE committees  SET itec\_id={updatedCommittee.ItecId},  committee\_name = '{updatedCommittee.CommitteeName}'  WHERE committee\_id = {updatedCommittee.CommitteeId}" | | DeleteBtn | Button | CommitteesUC.cs | $"DELETE FROM committees WHERE committee\_id = {committeeId}" | | cmbItec | Combo Box | CommitteesUC.cs | "SELECT itec\_id, year FROM itec\_editions" | | DataGridView1 | DataGridView | CommitteesUC.cs | "SELECT c.committee\_id,c.itec\_id,ie.year,c.committee\_name FROM committees c  LEFT JOIN itec\_editions ie on ie.itec\_id=c.itec\_id" | | |

|  |  |
| --- | --- |
| ***Interface Name*** | FinancesUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | FinancesUC.cs | $@"INSERT INTO finances(itec\_id, event\_id, type\_id, amount, from\_entity\_type, from\_entity\_id,  to\_entity\_type, to\_entity\_id, description, date\_recorded)  VALUES ({transaction.ITECId}, {eventPart}, {transaction.TypeId}, {transaction.Amount},  '{transaction.FromEntityType}', {transaction.FromEntityId},  '{transaction.ToEntityType}', {transaction.ToEntityId},  '{transaction.Description}', '{transaction.DateRecorded:yyyy-MM-dd HH:mm:ss}')" | | UpdateBtn | Button | FinancesUC.cs | $@"UPDATE finances SET itec\_id = {transaction.ITECId}, event\_id = {eventPart}, type\_id = {transaction.TypeId}, amount = {transaction.Amount}, from\_entity\_type = '{transaction.FromEntityType}',  from\_entity\_id = {transaction.FromEntityId}, to\_entity\_type = '{transaction.ToEntityType}', to\_entity\_id = {transaction.ToEntityId},  description = '{transaction.Description}', date\_recorded = '{transaction.DateRecorded:yyyy-MM-dd HH:mm:ss}'  WHERE transaction\_id = {transaction.TransactionId}" | | DeleteBtn | Button | FinancesUC.cs | $"DELETE FROM finances WHERE transaction\_id = {transactionId}" | | cmbEvent | Combo Box | FinancesUC.cs | "SELECT event\_id, event\_name FROM itec\_events" | | cmbItec | Combo Box | FinancesUC.cs | "SELECT event\_id, event\_name FROM itec\_events" | | cmbType | Combo Box | FinancesUC.cs | "SELECT lookup\_id, value FROM lookup WHERE category = 'FinanceType'" | | DataGridView1 | DataGridView | FinancesUC.cs | @"SELECT f.transaction\_id, f.itec\_id, f.event\_id, f.type\_id, f.amount, f.from\_entity\_type, f.from\_entity\_id, f.to\_entity\_type, f.to\_entity\_id,  f.description, f.date\_recorded, l.value AS finance\_type,  e.event\_name, ie.year AS itec\_year,  COALESCE(s.sponsor\_name, u.username, c.committee\_name, v.vendor\_name) AS from\_entity\_name,  COALESCE(s2.sponsor\_name, u2.username, c2.committee\_name, v2.vendor\_name) AS to\_entity\_name  FROM finances f  LEFT JOIN lookup l ON f.type\_id = l.lookup\_id  LEFT JOIN itec\_events e on f.event\_id = e.event\_id  LEFT JOIN itec\_editions ie ON f.itec\_id = ie.itec\_id  LEFT JOIN sponsors s ON f.from\_entity\_type = 'Sponsor' AND f.from\_entity\_id = s.sponsor\_id  LEFT JOIN users u ON f.from\_entity\_type = 'User' AND f.from\_entity\_id = u.user\_id  LEFT JOIN committees c ON f.from\_entity\_type = 'Committee' and f.from\_entity\_id = c.committee\_id  LEFT JOIN vendors v on f.from\_entity\_type = 'Vendor' AND f.from\_entity\_id = v.vendor\_id  LEFT JOIN sponsors s2 ON f.to\_entity\_type = 'Sponsor' AND f.to\_entity\_id = s2.sponsor\_id  LEFT JOIN users u2 on f.to\_entity\_type = 'User' and f.to\_entity\_id = u2.user\_id  LEFT JOIN committees c2 on f.to\_entity\_type = 'Committee' AND f.to\_entity\_id = c2.committee\_id  LEFT JOIN vendors v2 ON f.to\_entity\_type = 'Vendor' and f.to\_entity\_id = v2.vendor\_id" | | GenerateReportBtn | Button | FinancesUC.cs | $@"SELECT SUM(CASE WHEN l.value IN ('Sponsorship Income', 'Ticket Sales') THEN f.amount ELSE 0 END) as TotalIncome, SUM(CASE WHEN l.value = 'Expense' THEN f.amount ELSE 0 END) AS TotalExpenses, (SUM(CASE WHEN l.value IN ('Sponsorship', 'Ticket Sales') then f.amount ELSE 0 END) -  SUM(CASE WHEN l.value = 'Expense' THEN f.amount ELSE 0 END)) AS NetBalance FROM finances f  JOIN lookup l ON f.type\_id = l.lookup\_id  WHERE f.itec\_id = {itecId}" | | |

|  |  |
| --- | --- |
| ***Interface Name*** | SponsorshipUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | SponsorshipUC.cs | $@"INSERT INTO sponsors (sponsor\_name, contact)  VALUES ('{newSponsor.SponsorName}', '{newSponsor.Contact}')" | | UpdateBtn | Button | SponsorshipUC.cs | $@"UPDATE sponsors  SET sponsor\_name = '{updatedSponsor.SponsorName}',  contact = '{updatedSponsor.Contact}'  WHERE sponsor\_id = {updatedSponsor.SponsorId}" | | DeleteBtn | Button | SponsorshipUC.cs | $"DELETE FROM sponsors WHERE sponsor\_id = {sponsorId}" | | DataGridView1 | DataGridView | SponsorshipUC.cs | @"SELECT s.sponsor\_id, s.sponsor\_name, s.contact,  COALESCE(SUM(f.amount), 0) AS total\_amount FROM sponsors s  LEFT JOIN finances f ON s.sponsor\_id = f.from\_entity\_id AND f.from\_entity\_type = 'Sponsor'  GROUP BY s.sponsor\_id, s.sponsor\_name, s.contact" | | |

|  |  |
| --- | --- |
| ***Interface Name*** | DashboardUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | ApproveBtn | Button | DashboardUC.cs | $"UPDATE users SET role\_id = {roleId} WHERE user\_id = {userId}" | | cmbRole | Button | DashboardUC.cs | "SELECT role\_id, role\_name FROM roles" | | DataGridView1 | DataGridView | DashboardUC.cs | "SELECT \* FROM users WHERE role\_id IS NULL" | | |

|  |  |
| --- | --- |
| ***Interface Name*** | DutiesUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | DutiesUC.cs | $@"INSERT INTO duties  (committee\_id, assigned\_to, task\_description, deadline, status\_id)  VALUES ({newDuty.CommitteeId}, '{newDuty.AssignedTo}', '{newDuty.TaskDescription}', '{newDuty.Deadline:yyyy-MM-dd}', {newDuty.StatusId})" | | UpdateBtn | Button | DutiesUC.cs | $@"UPDATE duties  SET committee\_id = {updatedDuty.CommitteeId},  assigned\_to = '{updatedDuty.AssignedTo}',  task\_description = '{updatedDuty.TaskDescription}',  deadline = '{updatedDuty.Deadline:yyyy-MM-dd}', status\_id = {updatedDuty.StatusId}  WHERE duty\_id = {updatedDuty.DutyId}" | | DeleteBtn | Button | DutiesUC.cs | $"DELETE FROM duties WHERE duty\_id = {dutyId}" | | cmbCommittee | Combo Box | DutiesUC.cs | "SELECT committee\_id, committee\_name FROM committees" | | cmbStatus | Combo Box | DutiesUC.cs | "SELECT lookup\_id, value FROM lookup WHERE category = 'DutyStatus'" | | DataGridView1 | DataGridView | DutiesUC.cs | @"SELECT  d.duty\_id,d.committee\_id, d.assigned\_to,d.task\_description,d.deadline,d.status\_id,c.committee\_name,l.value AS status\_name FROM duties d  LEFT JOIN committees c on d.committee\_id = c.committee\_id  LEFT JOIN lookup l on d.status\_id = l.lookup\_id" | | |

|  |  |
| --- | --- |
| ***Interface Name*** | EditioncUC |
| |  |  |  |  | | --- | --- | --- | --- | | **UI Component Name** | **Type of UI component** | **Class Attribute name,**  **Classname, attribute name** | **Linked to which database column/table** | | AddBtn | Button | EditioncUC.cs | $@"INSERT INTO itec\_editions(year, theme, description)  VALUES({newEdition.Year}, '{newEdition.Theme}', '{newEdition.Description}')" | | UpdateBtn | Button | EditioncUC.cs | $@"UPDATE itec\_editions  SET year = {updatedEdition.Year}, theme = '{updatedEdition.Theme}',description = '{updatedEdition.Description}'  WHERE itec\_id = {updatedEdition.ItecId}" | | DeleteBtn | Button | EditioncUC.cs | $"DELETE FROM itec\_editions WHERE itec\_id = {itecId}" | | DataGridView1 | DataGridView | EditioncUC.cs | @"SELECT ie.itec\_id, ie.year, ie.theme, ie.description,COUNT(distinct ievent.event\_id) AS event\_count, COUNT(distinct p.participant\_id) AS participant\_count  FROM itec\_editions ie  LEFT JOIN itec\_events ievent on ie.itec\_id = ievent.itec\_id  LEFT JOIN participants p on ie.itec\_id = p.itec\_id GROUP BY ie.itec\_id, ie.year, ie.theme, ie.description" | | |

|  |  |
| --- | --- |
| ***Business Report-1*** |  |
| *Business Report Name:* **Financial Report** | |
| *Sample of report:* | |
| *Query to build Report:*  *@" SELECT e.year AS Year, l.value AS TransactionType, f.amount AS Amount,*  *DATE\_FORMAT(f.date\_recorded, '%Y-%m-%d') AS TransactionDate,*  *COALESCE(s.sponsor\_name, v.vendor\_name, u.username, c.committee\_name) AS FromEntity,*  *COALESCE(s2.sponsor\_name, v2.vendor\_name, u2.username, c2.committee\_name) AS ToEntity,*  *f.description AS Description,*  *CASE*  *WHEN l.value IN ('Sponsorship Income', 'Ticket Sales', 'Miscellaneous Income') THEN 'Income'*  *WHEN l.value IN ('Vendor Payment', 'Expense', 'Venue Rental Expense', 'Equipment Purchase',*  *'Marketing Expense') THEN 'Expense'*  *END AS FinancialCategory*  *FROM finances f*  *JOIN itec\_editions e ON f.itec\_id = e.itec\_id*  *JOIN lookup l ON f.type\_id = l.lookup\_id*  *LEFT JOIN sponsors s ON f.from\_entity\_type = 'Sponsor' AND f.from\_entity\_id = s.sponsor\_id*  *LEFT JOIN vendors v on f.from\_entity\_type = 'Vendor' AND f.from\_entity\_id = v.vendor\_id*  *LEFT JOIN users u on f.from\_entity\_type = 'User' and f.from\_entity\_id = u.user\_id*  *LEFT JOIN committees c ON f.from\_entity\_type = 'Committee' AND f.from\_entity\_id = c.committee\_id*  *LEFT JOIN sponsors s2 ON f.to\_entity\_type = 'Sponsor' AND f.to\_entity\_id = s2.sponsor\_id*  *LEFT JOIN vendors v2 ON f.to\_entity\_type = 'Vendor' AND f.to\_entity\_id = v2.vendor\_id*  *LEFT JOIN users u2 ON f.to\_entity\_type = 'User' and f.to\_entity\_id = u2.user\_id*  *LEFT JOIN committees c2 on f.to\_entity\_type = 'Committee' AND f.to\_entity\_id = c2.committee\_id"* | |

|  |  |
| --- | --- |
| ***Business Report-2*** |  |
| *Business Report Name:* ***Venue Report*** | |
| *Sample of report:* | |
| *Query to build Report:*  *@" SELECT e.year AS Year, v.venue\_name AS Venue, v.capacity AS Capacity,*  *ev.event\_name AS AssignedEvent,*  *DATE\_FORMAT(va.assigned\_date, '%Y-%m-%d') AS AssignmentDate,*  *TIME\_FORMAT(va.assigned\_time, '%H:%i') AS AssignmentTime*  *FROM venue\_allocations va*  *JOIN venues v ON va.venue\_id = v.venue\_id*  *JOIN itec\_events ev ON va.event\_id = ev.event\_id*  *JOIN itec\_editions e ON ev.itec\_id = e.itec\_id";* | |

|  |  |
| --- | --- |
| ***Business Report-3*** |  |
| *Business Report Name:* ***Event Report*** | |
| *Sample of report:* | |
| *Query to build Report:*  *@"SELECT e.year AS Year, ev.event\_name AS Event, ec.category\_name AS Category,*  *DATE\_FORMAT(ev.event\_date, '%Y-%m-%d') AS EventDate,*  *c.committee\_name AS ResponsibleCommittee, v.venue\_name AS Venue,*  *COUNT(ep.participant\_id) AS ParticipantsRegistered*  *FROM itec\_events ev*  *JOIN itec\_editions e ON ev.itec\_id = e.itec\_id*  *LEFT JOIN event\_categories ec ON ev.event\_category\_id = ec.event\_category\_id*  *LEFT JOIN committees c ON ev.committee\_id = c.committee\_id*  *LEFT JOIN venues v on ev.venue\_id = v.venue\_id*  *LEFT JOIN event\_participants ep ON ev.event\_id = ep.event\_id*  *GROUP BY ev.event\_id, e.year, ev.event\_name, ec.category\_name, ev.event\_date, c.committee\_name,*  *v.venue\_name";* | |