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| **DATA DICTIONARY** | |
| **Project Title: BLOCK 8 PORTAL** | **Date: May 28, 2025** |
| **Proponents:**  **REYES, RON JOSHUA N.**  **BALDO, CHRISTOPER**  **BERNARDO, NEZ A.**  **PANZO, EDWARD A.**  **DUMAS, JACKYLOU** | |

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| **TABLE: USER** | | | |
| **Column Name** | **Data Type** | **Constraints** | **Description** |
| id | INT | AUTO\_INCREMENT, PRIMARY KEY | Unique identifier for each user |
| student\_id | VARCHAR(20) | NOT NULL, UNIQUE | Unique ID for students/admin |
| full\_name | VARCHAR(100) | NOT NULL | |  | | --- | |  |   Full name of the user |
| email | VARCHAR(100) | NOT NULL, UNIQUE | Email address of the user |
| username | VARCHAR(50) | NOT NULL, UNIQUE | Username used for login |
| password | VARCHAR(255) | NOT NULL | Hashed password |
| role | ENUM | DEFAULT 'student' | Role of the user: 'student' or 'admin' |
| status | ENUM | Default: 'active' | Account status: 'active' or 'inactive' |
| created\_at | TIMESTAMP | Default: CURRENT\_TIMESTAMP | Date created |
| updated\_at | TIMESTAMP | ON UPDATE CURRENT\_TIMESTAMP | Record last update timestamp |

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| **TABLE:GRADES** | | | |
| **Column Name** | **Data Type** | **Constraints** | **Description** |
| id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for each grade entry |
| student\_id | VARCHAR(20) | NOT NULL, FOREIGN KEY → users(student\_id) | Student's unique ID |
| course\_code | VARCHAR(20) | NOT NULL | Code of the course |
| course\_title | VARCHAR(100) | NOT NULL | Title of the course |
| units | INT | NOT NULL, DEFAULT 3 | Number of course units |
| grade | VARCHAR(5) | NOT NULL | Letter grade (e.g., A, B+) |
| grade\_points | DECIMAL(3,2) | NOT NULL | Grade point equivalent |
| semester | VARCHAR(20) | NOT NULL | Semester when the grade was earned |
| academic\_year | VARCHAR(20) | NOT NULL | Academic year (e.g., 2024-2025) |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation time |
| updated\_at | TIMESTAMP | ON UPDATE CURRENT\_TIMESTAMP | Record last update timestamp |

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| **TABLE: announcements** | | | |
| **Column Name** | **Data Type** | **Constraints** | **Description** |
| id | INT | PRIMARY KEY, AUTO\_INCREMENT | Unique identifier for the announcement |
| title | VARCHAR(20) | NOT NULL | Title of the announcement |
| content | TEXT | NOT NULL | Full text of the announcement |
| type | ENUM | DEFAULT 'general' | Type: 'general', 'academic', or 'administrative' |
| status | ENUM | DEFAULT 'active' | Status: 'active' or 'inactive' |
| created\_by | INT | NOT NULL, FOREIGN KEY → users(id) | ID of the user who created the announcement |
| created\_at | TIMESTAMP | DEFAULT CURRENT\_TIMESTAMP | Record creation timestamp |
| updated\_at | TIMESTAMP | ON UPDATE CURRENT\_TIMESTAMP | Record last update timestamp |