# **table specifications**

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| **table**  **name** | **attribute** | **datatype** | **constraints** |
| **degrees** | | | |
|  | degree\_id | NUMBER(5) | pk\_degrees |
|  | degree\_title | VARCHAR2(30) | NOT NULL |
|  | detail | VARCHAR2(100) |  |
|  | degree\_level | VARCHAR2(5) |  |
|  | degree\_year | NUMBER(1) | DEFAULT 4, NOT NULL, CHECK (degree\_year BETWEEN 1 AND 9) |
| **examiners** | | | |
|  | examiner\_id | NUMBER(5) | pk\_examiners |
|  | examiner\_fname | VARCHAR2(15) | NOT NULL |
|  | examiner\_lname | VARCHAR2(15) | NOT NULL |
|  | institution | VARCHAR2(30) |  |
|  | contact\_detail | VARCHAR2(20) |  |
|  | address | VARCHAR2(30) |  |
| **markers** | | | |
|  | marker\_id | NUMBER(5) | pk\_markers |
|  | marker\_fname | VARCHAR2(15) | NOT NULL |
|  | marker\_lname | VARCHAR2(15) | NOT NULL |
|  | contact\_detail | VARCHAR2(20) |  |
|  | address | VARCHAR2(30) |  |
| **students** | | | |
|  | student\_id | NUMBER(5) | pk\_students |
|  | degree\_id | NUMBER(5) | fk\_students\_degrees, NOT NULL |
|  |  |  |  |
|  | student\_fname | VARCHAR2(15) | NOT NULL |
|  | student\_lname | VARCHAR2(15) | NOT NULL |
|  | dob | DATE | NOT NULL |
|  | contact\_number | VARCHAR2(20) |  |
|  | address | VARCHAR2(30) |  |
| **modules** | | | |
|  | module\_id | NUMBER(5) | pk\_modules |
|  | examiner\_id | NUMBER(5) | fk\_modules\_examiners, NOT NULL |
|  | module\_name | VARCHAR2(30) | NOT NULL |
|  | detail | VARCHAR2(30) |  |
|  | status | CHAR(1) | DEFAULT 'Y', CHECK (status IN ('Y', 'N')) |
| **degree\_modules** | | | |
|  | module\_id | NUMBER(5) | pk\_degree\_modules, fk\_degree\_modules\_modules |
|  | degree\_id | NUMBER(5) | pk\_degree\_modules, fk\_degree\_modules\_degrees |
|  | start\_date | DATE | NOT NULL |
|  | semester | VARCHAR2(2) | CHECK (semester IN ('S1', 'S2')) |
| **module\_lists** | | | |
|  | module\_list\_id | NUMBER(5) | pk\_module\_lists |
|  | student\_id | NUMBER(5) | fk\_module\_lists\_students, NOT NULL |
|  | module\_id | NUMBER(5) | fk\_module\_lists\_modules, NOT NULL |
|  | enrollment\_date | DATE | NOT NULL |
| **attendances** | | | |
|  | attendance\_id | NUMBER(5) | pk\_attendances |
|  | module\_list\_id | NUMBER(5) | fk\_attendances\_module\_lists, NOT NULL |
|  | attendance\_date | DATE | DEFAULT SYSDATE, NOT NULL |
|  | status | CHAR(1) | CHECK (status IN ('P', 'A')) |
| **assignments** | | | |
|  | assignment\_id | NUMBER(5) | pk\_assignments |
|  | module\_id | NUMBER(5) | fk\_assignments\_modules, NOT NULL |
|  | code | VARCHAR2(5) | NOT NULL, UNIQUE |
|  | title | VARCHAR2(30) | NOT NULL |
|  | weighting | NUMBER(5,2) | NOT NULL, CHECK (weighting BETWEEN 0 AND 100) |
|  | type | VARCHAR2(20) |  |
| **submissions** | | | |
|  | submission\_id | NUMBER(5) | pk\_submissions |
|  | assignment\_id | NUMBER(5) | fk\_submissions\_assignments, NOT NULL |
|  | marker\_id | NUMBER(5) | fk\_submissions\_markers, NOT NULL |
|  | receipt\_no | VARCHAR2(4) | NOT NULL, UNIQUE |
|  | submission\_date | DATE | NOT NULL |
| **student\_submissions** | | | |
|  | student\_id | NUMBER(5) | pk\_student\_submissions, fk\_student\_submissions\_students |
|  | submission\_id | NUMBER(5) | pk\_student\_submissions, fk\_student\_submissions\_submissions |
|  | grade | VARCHAR2(2) | CHECK (grade IN ('A+','A','A-','B+','B','B-','C+','C','C-','D+','D','D-','F')) |
|  | feedback | VARCHAR2(100) |  |