Talent Training DB Database Design Specification Document

Version 1.0

# Document Information

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| **Document Identification** | **Database Design** |
| Version No. | 1.0 |
| Authored By | Rani |
| Reviewed By |  |
| Approved By |  |

# Version History

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| **Version & Date** | **Prepared /Revised By** | **Reason for change** |
| 1.0 | Rani | Draft |
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# Overview

This document describes the high level database architecture of Talent Training portal to register trainer, trainee to courses provided by the institute and submitting the timesheet for the courses. The design help to understand the tables and transaction of data.

# Database Tables & Description

Table Name: ROLE

Description: ROLE table is for maintaining role for user. Each user will assign one role, depending on the role user will have access to modify data.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| ROLE\_ID | VARCHAR2 | 10 | role3 | PRIMARY KEY |
| ROLE\_NAME | VARCHAR2 | 100 | TRAINEE | Description of ROLE\_ID |
| NOTE | VARCHAR2 | 1000 |  | Describe any comments regarding role. |

Table Name: USERS

Description: USERS table is for maintaining details of the Users, Users can be a Trainee, Trainer, Admin or Management.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| ID | NUMBER | 10 |  | PRIMARY KEY |
| LOGIN\_ID | VARCHAR2 | 20 |  | Will be provided by the user, user can use this id to login training application. |
| PASSWORD | VARCHAR2 | 20 |  | Hash code of the password entered by the User. |
| ROLE\_ID | VARCHAR2 | 10 |  | FOREIGN KEY. Refers the ROLE\_ID of the ROLE table. |
| FIRST\_NAME | VARCHAR2 | 100 |  | First name of the User. Is not null. |
| LAST\_NAME | VARCHAR2 | 100 |  | Last name of the User. |
| MIDDLE\_NAME | VARCHAR2 | 100 |  | Middle name of the User. |
| DATE\_OF\_BIRTH | DATE |  |  | Date of birth of the User. |
| EMAIL\_ID | VARCHAR2 | 100 |  | Email id of the user. |
| LEGAL\_STATUS | VARCHAR2 | 20 |  | Legal status of the user. |
| CELL\_NO | VARCHAR2 | 15 |  | Cell number of the User. |
| HOME\_NO | VARCHAR2 | 15 |  | Home number of the User. |
| OFFICE\_NO | VARCHAR2 | 15 |  | Office number of the User. |
| HI\_QUALIFICATION | VARCHAR2 | 100 |  | Higher qualification of the User. |
| HOME\_ADDRESS\_ID | NUMBER |  |  | FOREGIN KEY refer to ID of Address table |
| OFFICE\_ADDRESS\_ID | NUMBER |  |  | FOREGIN KEY refer to ID of Address table |
| JOIN\_DATE | DATE |  |  | Join date of the User in Institute. |
| GENDER | VARCHAR2 | 7 |  | MALE/FEMALE gender of the User. |
| NOTE | VARCHAR2 | 1000 |  | Describe any comments regarding User. |
| CREATED\_ID | NUMBER |  |  | Id of the User inserted the record in Users table. |
| CREATED\_DATE | DATE |  |  | Date the User inserted the record in Users table. |
| UPDATED\_ID | NUMBER |  |  | Id of the User updated the record in Users table. |
| UPDATED\_DATE | DATE |  |  | Date the User updated the record in Users table. |

Table Name: ADDRESS

Description: ADDRESS table is for maintaining address details of the Users.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| ID | NUMBER |  |  | PRIMARY KEY |
| ADDR\_L1 | VARCHAR2 | 100 |  | Line 1 of the User Address. |
| ADDR\_L2 | VARCHAR2 | 100 |  | Line 2 of the User Address. |
| CITY | VARCHAR2 | 100 |  | City of the User. |
| STATE | VARCHAR2 | 100 |  | State of the User. |
| COUNTRY | VARCHAR2 | 100 |  | Country of the User. |
| ZIPCODE | VARCHAR2 | 15 |  | Zip code of the User. NOT NULL |

Table Name: COURSE

Description: COURSE table is for maintaining list of Courses available in the institute.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| ID | VARCHAR2 | 10 |  | PRIMARY KEY |
| NAME | VARCHAR2 | 100 |  | Name of the Course. |
| DESCRIPTION | VARCHAR2 | 500 |  | Description for the Course. |
| STATUS | VARCHAR2 | 20 |  | Notify the status of the Course either ACTIVE/INACTIVE/UPCOMING etc. |
| FEE | NUMBER | 10,2 |  | Fee for the Course |
| NOTE | VARCHAR2 | 1000 |  | Describe any comments regarding Course. |
| CREATED\_ID | NUMBER |  |  | Id of the User inserted the record in COURSE table. |
| CREATED\_DATE | DATE |  | SYSDATE | Date the User inserted the record in COURSE table. |
| UPDATED\_ID | NUMBER |  |  | Id of the User updated the record in COURSE table. |
| UPDATED\_DATE | DATE |  | SYSDATE | Date the User updated the record in COURSE table. |

Table Name: SECTION

Description: SECTION table is for maintaining list of Sections for different Courses.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| ID | VARCHAR2 | 10 |  | PRIMARY KEY |
| NAME | VARCHAR2 | 100 |  | Name of the SECTION. |
| DESCRIPTION | VARCHAR2 | 500 |  | Description for the Section. |
| STATUS | VARCHAR2 | 20 |  | Notify the status of the SECTION either ACTIVE/INACTIVE/UPCOMING etc. |
| NOTE | VARCHAR2 | 1000 |  | Describe any comments regarding Section. |
| CREATED\_ID | NUMBER |  |  | Id of the User inserted the record in SECTION table. |
| CREATED\_DATE | DATE |  | SYSDATE | Date the User inserted the record in SECTION table. |
| UPDATED\_ID | NUMBER |  |  | Id of the User updated the record in SECTION table. |
| UPDATED\_DATE | DATE |  | SYSDATE | Date the User updated the record in SECTION table. |

Table Name: COURSE\_SECTION

Description: COURSE\_SECTION table is for maintaining list of Sections corresponding to Course.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| ID | NUMBER | 10 |  | PRIMARY KEY |
| COURSE\_ID | VARCHAR2 | 100 |  | FOREIGN KEY ,NOT NULL(refers the id course) |
| SECTION\_ID | NUMBER | 500 |  | FOREIGN KEY ,NOT NULL |
| COURSE\_SECTION STATUS | VARCHAR2 | 20 |  | Notify the status of the COURSE\_ SECTION either ACTIVE/INACTIVE/UPCOMING etc. |
| NOTE | VARCHAR2 | 1000 |  | Describe any comments regarding Section. |
| CREATED\_ID | NUMBER |  |  | Id of the User inserted the record in COURSE\_SECTION table. |
| CREATED\_DATE | DATE | SYSDATE |  | Date the User inserted the record in COURSE\_SECTION table. |
| UPDATED\_ID | NUMBER |  |  | Id of the User updated the record in COURSE\_SECTION table. |
| UPDATED\_DATE | DATE | SYSDATE |  | Date the User updated the record in COURSE\_SECTION table. |

Table Name: BATCH

Description: BATCH table is for maintains list of batches in the Institute.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| BATCH\_ID | VARCHAR2 | 10 |  | PRIMARY KEY |
| BATCH\_DESC | VARCHAR2 | 100 |  | Brief description of the Batch. |
| COURSE\_ID | VARCHAR2 | 10 |  | FOREIGN KEY ,NOT NULL( Referring the course id) |
| BATCH\_STATUS | VARCHAR2 | 20 |  | Notify the status of the BATCH either ACTIVE/INACTIVE/UPCOMING etc. |
| BATCH\_FEE | NUMBER | (10,2) |  | Fee for the BATCH. |
| START\_DATE | DATE |  |  | Start Date of the BATCH. |
| END\_DATE | DATE |  |  | End Date of the batch |
| NOTE | VARCHAR2 | 1000 |  | Describe any comments regarding Batch. |
| CREATED\_ID | NUMBER |  |  | Id of the User inserted the record in BATCH table. |
| CREATED\_DATE | DATE |  | SYSDATE | Date the User inserted the record in BATCH table. |
| UPDATED\_ID | NUMBER |  |  | Id of the User updated the record in BATCH table. |
| UPDATED\_DATE | DATE |  | SYSDATE | Date the User updated the record in BATCH table. |

Table Name: TRAINEE

Description: TRAINEE table is for maintaining specific technology details of Trainee.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| TRAINEE\_ID | NUMBER | 10 |  | PRIMARY KEY |
| SKILL | VARCHAR2 | 100 |  | Trainee skills |
| EXPERIENCE | VARCHAR | 20 |  | Experience of the Trainee |
| PREV\_COMPANY | VARCHAR2 | 100 |  | Trainee previous company experience |
| NOTE | VARCHAR2 | 1000 |  | Describe any comments regarding Trainee. |
| CREATED\_ID | NUMBER |  |  | Id of the User inserted the record in TRAINEE table. |
| CREATED\_DATE | DATE |  |  | Date the User inserted the record in TRAINEE table. |
| UPDATED\_ID | NUMBER |  |  | Id of the User updated the record in TRAINEE table. |
| UPDATED\_DATE | DATE |  |  | Date the User updated the record in TRAINEE table. |

Table Name: TRAINEE\_BATCH

Description: TRAINEE\_BATCH table is for transaction between batch and trainee.

|  |  |  |  |
| --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | COMMENTS |
| BATCH\_ID | VARCHAR2 | 20 | PRIMARY KEY |
| TRAINEE\_ID | NUMBER | 10 | FOREIGN KEY (refers to trainee id) |
| FEE | NUMBER | (10,2) | FEE for the Trainee batch |
|  |  |  |  |
| NOTE | VARCHAR2 | 1000 | Describe any comments regarding Batch Trainee. |
| CREATED\_ID | NUMBER |  | Id of the User inserted the record in TRAINEE\_BATCH table. |
| CREATED\_DATE | DATE | SYSDATE | Date the User inserted the record in T TRAINEE\_BATCH table. |
| UPDATED\_ID | NUMBER |  | Id of the User updated the record in TRAINEE\_BATCH table. |
| UPDATED\_DATE | DATE | SYSDATE | Date the User updated the record in TRAINEE\_BATCH table. |

Table Name: TRAINER

Description: TRAINER table is for maintaining list of Course section.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| TRAINER\_ID | NUMBER | 10 |  | PRIMARY KEY |
| COUSRE\_SECTION\_ID | NUMBER | 10 |  | Trainer skills |
| FEE | NUMBER | 10,2 |  | Experience of the Trainer |
| NOTE | VARCHAR2 | 1000 |  | Describe any comments regarding Trainer. |
| CREATED\_ID | NUMBER |  |  | Id of the User inserted the record in TRAINER table. |
| CREATED\_DATE | DATE |  | SYSDATE | Date the User inserted the record in TRAINER table. |
| UPDATED\_ID | NUMBER |  |  | Id of the User updated the record in TRAINER table. |
| UPDATED\_DATE | DATE |  | SYSDATE | Date the User updated the record in TRAINER table. |

Table Name: TRAINER\_BATCH

Description: TRAINER\_BATCH table is for transaction between batch and Trainer.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| BATCH\_ID | VARCHAR2 | 20 |  | PRIMARY KEY |
| TRAINER\_ID | NUMBER | 10 |  | FOREIGN KEY (refers to trainer id) |
| COURSE\_SECTION\_ID | NUMBER | (10,2) |  |  |
| FEE | NUMBER | (10,2) |  | FEE for the trainer batch |
| NOTE | VARCHAR2 | 1000 |  | Describe any comments regarding Batch Trainer. |
| CREATED\_ID | NUMBER |  |  | Id of the User inserted the record in TRAINER\_BATCH table. |
| CREATED\_DATE | DATE |  | SYSDATE | Date the User inserted the record in T TRAINER\_BATCH table. |
| UPDATED\_ID | NUMBER |  |  | Id of the User updated the record in TRAINER\_BATCH table. |
| UPDATED\_DATE | DATE |  | SYSDATE | Date the User updated the record in TRAINER\_BATCH table. |

Table Name: SCHEDULE

Description: SCHEDULE table is for maintain timesheet schedule for all Users.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| COLOUMN NAME | DATA TYPE | LENGTH | DEFAULT | COMMENTS |
| ID | NUMBER |  |  | PRIMARY KEY |
| BATCH\_ID | VARCHAR2 | 20 |  | FOREIGN KEY (refers to trainer id) |
| USER\_ID | NUMBER | 10 |  | FOREIGN KEY (refers to id of USERS) |
| COURSE\_SECTION\_ID | NUMBER | (10,2) |  | FOREIGN KEY (refers to id of COURSE\_SECTION) |
| SCHEDULE\_DATE | DATE | (10,2) |  | FEE for the trainer batch |
| NOTE | VARCHAR2 | 1000 |  | Describe any comments regarding Batch Trainer. |
| CREATED\_ID | NUMBER |  |  | Id of the User inserted the record in SCHEDULE table. |
| CREATED\_DATE | DATE |  | SYSDATE | Date the User inserted the record in T SCHEDULE table. |
| UPDATED\_ID | NUMBER |  |  | Id of the User updated the record in SCHEDULE table. |
| UPDATED\_DATE | DATE |  | SYSDATE | Date the User updated the record in SCHEDULE table. |