**Tools used**

The different tools used in designing are:

* Data dictionary
* Data flow diagrams
* ER diagram

**5.1.1 Data Dictionary**

Data dictionary consists of description of all the data used in the system. It consists of logical characteristics of current systems data stores including name, description, aliases, contents and organization. Data dictionary serves as the basis for identifying database requirements during system design. Data dictionary is a catalog, a depositary of the elements in the system.

**Roll\_number table:**

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Data type (size | constraint | Description |
| ROLL\_NUMBER | number (2) | Primary key | Stores trainee roll number |
| NAME | Varchar2(34) | Not null | Trainee name |

**Login Table:**

|  |  |  |
| --- | --- | --- |
| Column name | Data type (size) | Description |
| ROLL\_NUMBER | number (2) | Stores trainee roll number |

**PR table:**

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Data type (size) | constraint | Description |
| qno | number (2) | Primary key | Question number |
| question | Varchar2(4000) | Not null | Question |
| ans | Varchar2(4000) | Not null | Right answer of the question |
| choice1 | Varchar2(4000) | Not null | First choice |
| Choice2 | Varchar2(4000) | Not null | Second choice |
| choice3 | Varchar2(4000) | Not null | Third choice |
| choice4 | Varchar2(4000) | Not null | Fourth choice |

**Answer Table**

|  |  |  |  |
| --- | --- | --- | --- |
| Column name | Data type (size) | constraint | Description |
| Roll\_number | Number(2) | Not null | Roll no of trainees |
| name | Varchar2(30) | Not null | Name of trainees |
| qno | number (2) | Primary key | Question number |
| ques | Varchar2(4000) | Not null | Question |
| Ans1 | Varchar2(4000) | Not null | Right answer of the question |
| choice1 | Varchar2(4000) | Not null | First choice |
| choice2 | Varchar2(4000) | Not null | Second choice |
| choice3 | Varchar2(4000) | Not null | Third choice |
| choice4 | Varchar2(4000) | Not null | Fourth choice |
| marks | Number(3) |  | Marks obtained |
| rans | Varchar2(1) | Not null | Right answer |

**5.1.2Data Flow Diagrams**

5.1.2.1 Context Level DFD

TRAINEE

TRAINEE

ASSESSMENT

REPORT

TRAINEE

PERFORMANCE

REPORT

ADMINISTRATOR

Login

Acknowledge

Login

Acknowledge

Acknowledge

Acknowledge

Request

Request

**5.1.2.2 1-Level DFD for Administrator**

ADMINISTRATOR

Exam Information

Trainee

Record

Question

Record

QST

ROLL\_NUMBER

View Trainee Record

View Questions

ADMIN

Login

Ack

Authentication

Ack

.

**5.1.2.3 1-Level DFD for Trainee**

TRAINEE

ROLL\_NUMBER

QST

Begin Exam

Login

Retrieve

Answer

ANSWER

Marks

check

View Marks

Questions

LOGIN

Record Roll Number

Marked Questions

Total Marks

Ack

Ack

Retrieve

**5.1.3 ER Diagram**

ADMINISTRATOR

MANAGES

ROLL\_NUMBER

HAS

LOGIN

MAKE

pr

SETS

HAS

ANS

1

n

1

n

1

1

n

1

1

1