**BEYOND THE BEST**

May 2016

**HI-FI SCHOOL PROJECT**

**DB DESIGN - SCHEMA**

**PEDDOLLA CHIRANJEEVI**

**ENTITIES**:-

1. STUDENT
2. CLASS
3. TERMS
4. SUBJECTS
5. MARKS
6. TERM\_WISE\_RESULTS
7. FEE\_MASTER
8. CLASS\_WISE\_FEE\_MASTER
9. TERM\_WISE\_FEE\_PAYMENTS
10. SPORTS\_MASTER
11. CLASS\_WISE\_SPORTS
12. SPORTS\_PARTICIPATION
13. SPORTS\_FEE\_PAYMENTS
14. EXTRA\_CURR\_ACT\_MASTER
15. EXTRA\_CURR\_ACT\_PARTICIPATION
16. EXTRA\_CURR\_ACT\_FEE\_PAYMENTS
17. LIBRARY\_MASTER
18. LIBRARY\_IN\_OUT\_DETAILS
19. LIBRARY\_PAYMENTS
20. TRANSPORT\_MASTER
21. TRANSPORT\_ENROLLMENTS
22. TRANSPORT\_FEE\_PAYMENTS
23. ATTENDANCE\_MASTER
24. SECTION\_WISE\_ATTENDANCE
25. TEACHERS\_MASTER
26. TEACHER\_TO\_CLASS
27. TEACHER\_ATTENDANCE
28. TEACHER\_SALARY
29. STAFF\_MASTER
30. STAFF\_ATTENDANCE
31. STAFF\_SALARY

**STORED PROCEDURES:**

1. getStudentDetails
2. getStudentTermFeeDetails
3. getStudentTransportDetails
4. getStudentTransportFeeDetails
5. getStudentAttendanceDetails
6. getStudentClassDetails
7. getStudentExamResults
8. updateStudentDetails
9. updateStudentTermFeeDetails
10. updateStudentTransportDetails
11. updateStudentTransportFeeDetails
12. updateStudentAttendanceDetails
13. updateStudentClassDetails
14. updateStudentExamResults
15. deactivateStudent
16. getStudentLibraryUsageDetails
17. getLibraryFeePendingDetails
18. getSportsFeeDetails
19. getSportsFeePendingDetails
20. getClassWiseSectionWiseAttendanceReport
21. getYearWiseResultsReport
22. getYearWiseFailedStudentDetails
23. getYearWiseAttendanceDetails
24. getYearWiseSectionWiseAttendanceDetails
25. getTeacherAttendanceReport
26. getTeacherSalaryReport
27. getStaffSalaryReport
28. getStaffAttendanceReport
29. getBooksUsageDetails
30. getRackWiseLibraryDetails
31. getLibraryYearWiseBookDetails
32. getBooksNotIssuedReport
33. getTransportRoutesDetails
34. getMaxStudentsEnrolledRouteDetails
35. getStudentExtraCurrActReport

Likewise, based on requirement we can develop many stored procedures. First of all prepare this database, bulk data insertion scripts, procedures. Don’t hesitate to contact me, if any kind of questions or concerns you have.

**STUDENT:**

STNO (PK)

SNAME

FNAME

MNAME

DOB

DOJ

ADDRESS

ADMISSION\_NO

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**CLASS:**

CLASS\_ID (PK)

CLASS\_NO

CLASS\_NAME

SECTION\_NAME

SECTION\_TEACHER

SECTION\_INCHARGE

SECTION\_STRENGTH

ROOM\_NO

YEAR

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**TERMS:**

TERM\_ID (PK)

TERM\_NAME

TERM\_DURATION

TERM\_START\_DATE

TERM\_END\_DATE

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**SUBJECTS:**

SUBJECT\_ID (PK)

SUBJECT\_NAME

SUBJECT\_MAX\_MARKS

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**MARKS:**

MARKS\_ID (PK)

CLASS\_ID (FK)

STNO (FK)

TERM\_ID (FK)

SUBJECT\_ID (FK)

SUBJECT\_MARKS\_SECURED

ANSWER\_SHEET\_CORRECTED\_BY (FK – TEACHERS)

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**TERM\_WISE\_RESULTS:**

TWR\_ID (PK)

TERM\_ID (FK)

STNO (FK)

RESULT

RESULT\_GIVEN\_BY (FK – TEACHER)

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**FEE\_MASTER (PK):**

FEE\_ID (PK)

FEE\_DESCRIPTION

FEE\_FOR\_YEAR

FEE\_VALIDITY\_START\_DATE

FEE\_VALIDITY\_END\_DATE

DISCOUNT \_GENERAL

DISCOUNT\_IF\_REFERRAL

DISCOUNT\_IF\_EXAM\_QUALIFIED

DISCOUNT\_IF\_TOPPER

DISCOUNT\_SPECIAL\_CASE

DISCOUNT\_IF\_HANDICAPPED

DISCOUNT\_IF\_STAFF\_REFERRAL

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**CLASS\_WISE\_FEE\_MASTER:**

CWF\_ID (PK)

CLASS\_ID (FK)

FEE\_ID (FK)

FEE\_PER\_YEAR

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**TERM\_WISE\_FEE\_PAYMENTS:**

TWFP\_ID (PK)

TERM\_ID (FK)

FEE\_ID (FK)

TERM\_FEE\_TO\_BE\_PAID\_BEFORE

STNO (FK)

FEE\_AMOUNT

FEE\_PAID\_DATE

FEE \_PENALTY

FEE\_PAID\_MODE

FEE\_PAID\_BY

FEE\_RECEIVED\_BY (FK – STAFF)

FEE\_RECEIPT\_ID

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**SPORTS\_MASTER:**

SPORTS\_ID (PK)

SPORTS\_DESCRIPTION

KITS\_AVAILABLE

KITS\_USED

KITS\_REFILLED\_BY

KITS\_CHECKED\_BY

KITS\_CHECKED\_DATE

IF\_DONATED\_BY

IF\_DONATION\_DATE

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**CLASS\_WISE\_SPORTS:**

CWS\_ID (PK)

SPORTS\_ID (FK)

CLASS\_ID (FK – SECTION)

ALLOCATION\_TO\_SECTION\_BY

ALLOCATION\_TO\_SECTION\_DATE

CHANGE\_NOTES

CHANGE\_DATE

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**SPORTS\_PARTICIPATION:**

SPORTS\_PART\_ID (PK)

SPORTS\_ID (FK)

CWS\_ID (FK)

STNO (FK)

PARTICIPATION\_DATE

PRIZE\_NAME

PRIZE\_DATE

PRIZE\_GIVEN\_BY

PRIZE\_FOR

COACH\_COMMENTS

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**SPORTS\_FEE\_PAYMENTS:**

SPORTS\_FEE\_PAYMENT\_ID (PK)

TERM\_ID (FK)

SPORTS\_ID (FK)

SPORTS\_FEE\_AMOUNT

FEE\_TO\_BE\_PAID\_BEFORE

STNO (FK)

FEE\_AMOUNT

FEE\_PAID\_DATE

FEE \_PENALTY

FEE\_PAID\_MODE

FEE\_PAID\_BY

FEE\_RECEIVED\_BY (FK – STAFF)

FEE\_RECEIPT\_ID

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**EXTRA\_CURR\_ACT\_MASTER:**

EXTRA\_CURR\_ACT\_ID (PK)

EXTRA\_CURR\_ACT\_DESC

KITS\_AVAILABLE

KITS\_USED

KITS\_REFILLED\_BY

KITS\_CHECKED\_BY

KITS\_CHECKED\_DATE

IF\_DONATED\_BY

IF\_DONATION\_DATE

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**EXTRA\_CURR\_ACT\_PARTICIPATION:**

EXTRA\_CURR\_ACT\_PARTICIPATION\_ID (PK)

EXTRA\_CURR\_ACT\_ID (FK)

CWS\_ID (FK)

STNO (FK)

PARTICIPATION\_DATE

PRIZE\_NAME

PRIZE\_DATE

PRIZE\_GIVEN\_BY

PRIZE\_FOR

COACH\_COMMENTS

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**EXTRA\_CURR\_ACT\_FEE\_PAYMENTS:**

EXTRA\_CURR\_ACT\_FEE\_PAYMENTS\_ID (PK)

EXTRA\_CURR\_ACT\_ID (FK)

TERM\_ID (FK)

SPORTS\_ID (FK)

EXTRA\_CURR\_FEE\_AMOUNT

FEE\_TO\_BE\_PAID\_BEFORE

STNO (FK)

FEE\_AMOUNT

FEE\_PAID\_DATE

FEE \_PENALTY

FEE\_PAID\_MODE

FEE\_PAID\_BY

FEE\_RECEIVED\_BY (FK – STAFF)

FEE\_RECEIPT\_ID

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**LIBRARY\_MASTER:**

LIBRARY\_ID (PK)

ARRANGED\_YEAR

RACK\_NO

BOOK\_ID\_IF\_EXISTS

BOOK\_NAME

BOOK\_CATEGORY

AUTHOR

BOOK\_VERSION

USEFUL\_FOR\_SECTION (CLASS\_ID FK)

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**LIBRARY\_IN\_OUT\_DETAILS:**

LIOD\_ID (PK)

LIBRARY\_ID (FK)

BOOK\_ISSUED\_TO\_STNO (FK)

BOOK\_ISSUED\_BY

BOOK\_ISSUED\_TO

BOOK\_RETURN\_DUE\_DATE

ACTUAL\_BOOK\_RETURNED\_DATE

BOOK\_COLLECTED\_BY (FK – STAFF)

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**LIBRARY\_PAYMENTS:**

LIB\_PAYMENTS\_ID (PK)

LIBRARY\_ID (FK)

LIOD\_ID (FK)

LIBRARY\_FEE\_AMOUNT

FEE\_TO\_BE\_PAID\_BEFORE

STNO (FK)

FEE\_AMOUNT

FEE\_PAID\_DATE

FEE \_PENALTY

FEE\_PAID\_MODE

FEE\_PAID\_BY

FEE\_RECEIVED\_BY (FK – STAFF)

FEE\_RECEIPT\_ID

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**TRANSPORT\_MASTER:**

TRANSPORT\_ROUTE\_ID (PK)

ROUTE\_ID

ROUTE\_NAME

ROUTE\_PLANNED\_MONTH\_YEAR

ROUTE\_VALID\_TILL

ROUTE\_COORDINATOR

ROUTE\_GRIEVANCE\_OFFICER

ROUTE\_GRIEVANCE\_OFF\_CONTACT\_NUMBER

ROUTE\_VEHICLES\_NUMBERS\_LIST (COMMA SEPERATED)

ROUTE\_DISTANCE

ROUTE\_TAT\_ESTIMATION (TAT-TURN-AROUND-TIME)

ROUTE\_TAT\_ESTIMATED\_BY

ROUTE\_START\_POINT

ROUTE\_END\_POINT

ROUTE\_PRIME\_DRIVER (FK-STAFF)

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**TRANSPORT\_ENROLLMENTS\_ROASTER**

TR\_ENROLL\_ROASTER\_ID (PK)

TRANSPORT\_ROUTE\_ID (FK)

STNO (FK)

ENROLLMENT\_DATE

ENROLLMENT\_START\_DATE

ENROLLMENT\_END\_DATE

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**TRANSPORT\_FEE\_PAYMENTS**

TR\_FEE\_PAYMENT\_ID (PK)

TR\_ENROLL\_ROASTER\_ID (PK)

TRANSPORT\_ROUTE\_ID (FK)

TRANSPORT\_FEE\_AMOUNT

FEE\_TO\_BE\_PAID\_BEFORE

TERM\_ID (FK)

STNO (FK)

FEE\_AMOUNT

FEE\_PAID\_DATE

FEE \_PENALTY

FEE\_PAID\_MODE

FEE\_PAID\_BY

FEE\_RECEIVED\_BY (FK – STAFF)

FEE\_RECEIPT\_ID

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**ATTENDANCE\_MASTER:**

ATTENDANCE\_ID (PK)

FOR\_YEAR

FOR\_MONTH

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**SECTION\_WISE\_ATTENDANCE:**

SEC\_ATT\_ID (PK)

ATTENDANCE\_ID (FK)

CLASS\_ID (FK)

STNO (FK)

DAY

PRESENT (N-ABSENT OR Y-PRESENT)

RECORDED\_BY (FK-TEACHER)

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**TEACHERS\_MASTER:**

TEACHER\_ID (PK)

TEACHER\_NAME

DOB

DOJ (DATE OF JOINING)

GENDER

FNAME

MNAME

SPOUSE\_NAME

GRADE

INSURANCE\_NAME

INSURANCE\_PREMIUM

INSURANCE\_VALID\_TILL

INSURED\_AMOUNT

INSURANCE\_NUMBER

TOTAL\_EXPERIENCE

SME (SUBJECT-MATTER-EXPERT)

VALUE\_ADDITIONS (B.ED, M.ED, PH.D, M.PHIL ETC)

IF\_REFERRED\_BY

INTERVIEWED\_BY

INTERVIEWED\_DATE

PAN\_CARD\_NUMBER

BANK\_ACCOUNT\_NUMBER

ADDRESS

EMAIL\_ID

MOBILE

EMERGENCY\_CONTACT

EMER\_CONTACT\_MOBILE

PREVIOUS\_ORGANIZATION

PREVIOUS\_ORG\_ANN\_INCOME

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**TEACHER\_TO\_CLASS:**

TEACHER\_TO\_CL\_ID (PK)

TEACHER\_ID (FK)

CLASS\_ID

ASSIGNED\_BY

ASSIGNMENT\_DATE

YEAR

ASSIGNMENT\_START\_DATE

ASSIGNMENT\_END\_DATE

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**TEACHER\_ATTENDANCE:**

TEACHER\_ATT\_ID (PK)

TEACHER\_ID (FK)

YEAR

MONTH

DAY

PRESENT (N-ABSENT OR Y-PRESENT OR L-LEAVE OR M-MATERNITY LEAVE OR P-PATERNITY LEAVE)

IF\_LEAVE\_APPROVED\_BY (FK-STAFF)

RECORDED\_BY (FK-STAFF)

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**TEACHER\_SALARY:**

TEACHER\_SAL\_ID (PK)

TEACHER\_ID (FK)

ANNUAL\_SALARY

YEAR

MONTH

GROSS\_SAL

TOTAL\_DED

NET\_SAL

INCOME\_TAX\_DEDUCTED

INCOME\_TAX\_AMOUNT

SALARY\_CREDITED\_TO\_ACCT

CREDITED\_MODE

CREDIT\_INITIATED\_BY

CREDIT\_INITIATED\_DATE

ADDITIONAL\_COMMENTS

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**STAFF\_MASTER:**

STAFF\_ID (PK)

STAFF\_NAME

DOB

DOJ (DATE OF JOINING)

GENDER

FNAME

MNAME

SPOUSE\_NAME

GRADE

INSURANCE\_NAME

INSURANCE\_PREMIUM

INSURANCE\_VALID\_TILL

INSURED\_AMOUNT

INSURANCE\_NUMBER

TOTAL\_EXPERIENCE

SME (SUBJECT-MATTER-EXPERT)

VALUE\_ADDITIONS (C.A., SECURITY, INTERNATIONAL\_DRIVER ETC)

IF\_REFERRED\_BY

INTERVIEWED\_BY

INTERVIEWED\_DATE

PAN\_CARD\_NUMBER

BANK\_ACCOUNT\_NUMBER

ADDRESS

EMAIL\_ID

MOBILE

EMERGENCY\_CONTACT

EMER\_CONTACT\_MOBILE

PREVIOUS\_ORGANIZATION

PREVIOUS\_ORG\_ANN\_INCOME

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**STAFF\_ATTENDANCE:**

STAFF\_ATT\_ID (PK)

STAFF\_ID (FK)

YEAR

MONTH

DAY

PRESENT (N-ABSENT OR Y-PRESENT OR L-LEAVE OR M-MATERNITY LEAVE OR P-PATERNITY LEAVE)

IF\_LEAVE\_APPROVED\_BY (FK-STAFF)

RECORDED\_BY (FK-STAFF)

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**STAFF\_SALARY:**

TEACHER\_SAL\_ID (PK)

TEACHER\_ID (FK)

ANNUAL\_SALARY

YEAR

MONTH

GROSS\_SAL

TOTAL\_DED

NET\_SAL

INCOME\_TAX\_DEDUCTED

INCOME\_TAX\_AMOUNT

SALARY\_CREDITED\_TO\_ACCT

CREDITED\_MODE

CREDIT\_INITIATED\_BY

CREDIT\_INITIATED\_DATE

ADDITIONAL\_COMMENTS

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**YEAR\_WISE\_BOOKS\_MASTER**

BOOK\_ID (PK)

BOOK\_NAME

YEAR

MONTH

DAY

AUTHOR

REVISION

IF\_PURCHASED\_BY

IF\_PURCHASED\_DATE

ADDED\_TO\_LIBRARY\_BY

ADDED\_TO\_LIBRARY\_DATE

LIBRARY\_RACK\_NO (FK)

LIBRARY\_ID (FK)

PRICE

QUANTITY

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**SECTION\_WISE\_BOOKS:**

SEC\_BOOK\_ID (PK)

BOOK\_SET\_DETAIL (COMMA SEPERATED)

FOR\_EDU\_YEAR

CLASS\_ID (FK)

BOOK\_SET\_APPROVED\_BY

BOOK\_SET\_APPROVED\_DATE

SET\_TOTAL\_BOOKS\_NOTES

SET\_TOTAL\_PRICE

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**BOOKS\_ISSUED\_TO\_STUDENT:**

BOOKS\_ISS\_TO\_ST (PK)

STNO (FK)

SEC\_BOOK\_ID (PK)

LIOD\_ID (PK)

LIBRARY\_ID (PK)

ISSUED\_BY (FK-STAFF)

ISSUED\_DATE

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE

**BOOKS\_PAYMENTS**

BOOKS\_PAYMENTS\_ID (PK)

BOOKS\_ISS\_TO\_ST (FK)

TERM\_ID (FK)

BOOKS\_ID (FK)

BOOKS\_FEE\_AMOUNT

FEE\_TO\_BE\_PAID\_BEFORE

STNO (FK)

FEE\_AMOUNT

FEE\_PAID\_DATE

FEE \_PENALTY

FEE\_PAID\_MODE

FEE\_PAID\_BY

FEE\_RECEIVED\_BY (FK – STAFF)

FEE\_RECEIPT\_ID

CREATED\_BY

CREATION\_DATE

LAST\_UPDATED\_BY

LAST\_UPDATION\_DATE