RIPHAH SCHOOL OF COMPUTING & INNOVATION

Riphah International University, Lahore Pakistan

**Project Assessment Rubric – Database Systems**

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | |  | | | | | **Conformance Level** | | | | |
|  | | **Conformance Legend** | | | | | **Excellent** | **Good** | **Fair** | **Poor** | **Extremely Poor** |
|  | | **Conformance Level %age** | | | | | **(80-100)%** | **(60-80)%** | **(40-60%)** | **(20-40)%** | **(0-20)%** |
|  | | **Rating** | | | | | **4.5 – 5.0** | **3.5 – 4.0** | **2.5 – 3.0** | **1.5 – 2.0** | **0.0 – 1.0** |
| **Sr.**  **No.** | **Criteria** | | **Description** | **Skill** | **CLO** | **Marks Weightage** |
| 1 | Logic and Conceptual Design | |  | Logic and Conceptual Design | CLO 2 | 10 | Able to  identify all  requirements.  And knows  the solution.  Can analyze  all problems | Able to  identify all  requirements.  Can analyze  all problems | Knowledge of  some required  requirements  only | Few knowledge  of project,  cannot analyze  problems | Unable to  create Logic |
| 2 | Ability to apply  normalization  concepts | | Appreciate use  and concept to  normalize data | Forms of  normalization | CLO3 | 20 | Excellent  knowledge of  normalization,  data should be  proper  normalized. | Ability to  implement  normalization  up to 3rd  normal form. | Data should  be  normalized. | Students have  average  knowledge of  normalization | Unable to  normalize  data |
| 3 | Ability to design  relational  database. | | Able to design  relational  database, ER  diagram. | Relational  model, ER  Diagram | CLO2 | 20 | The student  has designed  best database  and provided a  well laid ER  diagram. | Almost all of  the  requirements  of the Logical  design has  been provided  by the student | the  requirements  of the Logical  design has  been provided  by the student | There are  several  inaccuracies in  the logical  design provided  by the student | Not able to  design  relational  database |
| 4 | Ability to create a  Database, Creation  of all tables and  create relationship.  Concept of DDL  and DML | | Implementation  of Database,  concept of Data  Definition  Language, Data  Manipulation Language | DDL, DML | CLO3 | 10 | Complete  knowledge of  DDL, DML,  relationship  and database  is created properly | database is  created  properly and  relationships  applied | database is  created  properly | There are  several  inaccuracies in  the database  creation. | Students are  not able to  create  database |
| 5 | Ability to apply constraints, NOT NULL, UNIQUE, PRIMARY KEY, FOREIGN KEY | | Ability to apply relevant constraints | Constraints (Primary key foreign key implementation) | **CLO3** | 10 | Complete knowledge of constraints and all constraints applied properly | all constraints applied properly | Almost some constraints applied | There are several inaccuracies in the implementation of constraints | Students do not know how to apply constraints |
| 6 | Ability to use  advance concept  of database to  retrieve data, use  of a built-in function, joins, sub-queries, DATE FUNCTION, NESTED QUERIES, AGGREGATE FUNCTIONS etc… | | Students  should be able  to apply  advance  queries in reports to provide required data. | Concept of joins  and advance  queries | CLO3 | 20 | How to create  report that  fulfills all  requirements.  Students should be knowledgeable of joins, functions, stored procedures, sub  queries | How to create  report that  fulfills all  requirements.  Knowledge of joins and subquery | Create report  that fulfills all  requirements. | Problems to  implement  advance  concepts | No, any idea  about joins,  subquery etc. |
| 7 | Ability to  demonstrate in  group | | All members  should  participate | Communication  skills | - | 10 | Demonstrate  cooperation  through group  hierarchy | Demonstrate  cooperation  through  personal  dominance | Demonstrate  cooperation  after  intervention | Forced  cooperation  through  intervention | Unable to  cooperate in a  group |