|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| WEEK NO. | PROBLEMS WITH DESCRIPTION. | | PAGE NO. | SIGNATURE OF THE TEACHER WITH DATE. |
| 1. | 1# | Use the guidelines mention in the following link to install Oracle Express Edition (XE): https://www.oracle.com/in/database/technologies/appdev/xe/quickstart.html. |  |  |
| 2. |
| 3. | 1# | Indian Railway wants to maintain its database for the train, driver, and the platforms with the following requirements:  a) A train has attributes as train no., name, source, and destination.  b) A driver has its attributes as Driver name and age.  c) Each Platform has its attributes as platform ID, name, and district name.  d) Each train may be driven by different drivers, but each driver drives only a specific train  e) A train may stop at different platforms, and a platform may accommodate several trains at a moment in time. |  |  |
| 2# | Consider a car dealership that sells both new and used cars and operates a service facility. The data requirements are summarized as follows:  a) A salesperson may sell many cars, but each car is sold by only one salesperson.  b) A customer may buy many cars, but each car is bought by only one customer.  c) Salesperson writes a single invoice for each car he sells.  d) A customer gets an invoice for each car he buys.  e) A customer may come in just to have his or her car serviced; that is, a customer need not buy a car to be classified as a customer.  f) When a customer takes one or more cars in for repair or service, one service ticket is written for each car.  g) The car dealership maintains a service history for each of the cars serviced. The service records are referenced by the car's serial number.  h) A car brought in for service can be worked on by many mechanics, and each mechanic may work on many cars.  i) A car that is serviced may or may not need parts (e.g., adjusting a carburettor or cleaning a fuel injector nozzle does not require providing new parts).  Design ER diagram, schema diagram and construct database for the above. Give logical reasoning for the database design. |  |  |
| 4. | 1# | Create the tables described below: |  |  |
|  | |  |  |  |  |  | | --- | --- | --- | --- | --- | | Column Name | Data Type | Size | Default | Attributes | | CLIENTNO | Varchar2 | 6 |  |  | | Name | Varchar2 | 20 |  |  | | ADDRESS1 | Varchar2 | 30 |  |  | | ADDRESS2 | Varchar2 | 30 |  |  | | City | Varchar2 | 15 |  |  | | PINCODE | Number | 6 |  |  | | STATE | Varchar2 | 15 |  |  | | BALDUE | Number | 10,2 |  |  | |  |  |
|  |  |  |  |
|  |  |  |  |
| 2# |  |  |  |
| 3# |  |  |  |
| 5.-6. | 4# |  |  |  |
| 1# |  |  |  |
| 2# |  |  |  |
| 3# |  |  |  |
| 4# |  |  |  |
| 1# |  |  |  |
| 2# |  |  |  |
| 3# |  |  |  |
| 7. | 4# |  |  |  |
| 5# |  |  |  |
| 6# |  |  |  |
| 1# |  |  |  |
| 2# |  |  |  |
| 3# |  |  |  |
| 8. | 4# |  |  |  |
| 5# |  |  |  |
| 1# |  |  |  |
| 2# |  |  |  |
| 3# |  |  |  |
| 9. | 4# |  |  |  |
| 5# |  |  |  |
| 6# |  |  |  |
| 1# |  |  |  |
| 2# |  |  |  |
| 3# |  |  |  |
| 10. | 4# |  |  |  |
| 5# |  |  |  |
| 6# |  |  |  |
| 1# |  |  |  |
| 2# |  |  |  |
| 3# |  |  |  |
| 11. | 4# |  |  |  |
| 5# |  |  |  |
| 6# |  |  |  |
| 1# |  |  |  |
| 2# |  |  |  |
| 3# |  |  |  |
| 12. | 4# |  |  |  |
| 5# |  |  |  |
| 6# |  |  |  |
| 1# |  |  |  |
| 2# |  |  |  |
| 3# |  |  |  |
| 13. | 4# |  |  |  |
| 5# |  |  |  |
| 6# |  |  |  |
| 1# |  |  |  |
| 2# |  |  |  |
| 3# |  |  |  |
| 14. | 4# |  |  |  |
| 5# |  |  |  |
| 6# |  |  |  |
| 7# |  |  |  |
| 8# |  |  |  |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |