**DATA BASE DESIGN**

**E-commerce Store:**

* Design a database for an online store with products, customers, and orders.
* Implement queries to list products, calculate total sales, and track customer orders.
* Incorporate concepts like joins, aggregates, and sorting.

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| PAYMENT |
| ID |
| TYPE |
| DATE |
| AMOUNT |

**CONCEPTUAL MODEL**

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| --- |
| **CUSTOMER** |
| ID |
| NAME |
| GENDER |
| MOBILE |
| EMAIL |

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| --- |
| REVIEW |
| ID |
| DATE |
| TEXT |
| RATING |

|  |
| --- |
| ORDER |
| ID |
| ORDER\_DATE |
| STATUS |
| QUANTITY |
|  |

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| --- |
| PRODUCT |
| ID |
| NAME |
| CATEGORY |
| UNIT PRICE |
| PRODUCT DESCRIPTION |

**CUSTOMER:** Each customer will represent one account

**PRODUCT:** All the products available in the ecommerce platform

**ORDER:** Customer places order of products

**REVIEW:** Some customers write review and ratings to some products

**PAYMENT:** Products has an associated payment detail

**LOGICAL MODEL**

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| **PAYMENT** |
| ID (PK) |
| ORDER\_ID (FK) |
| TYPE |
| DATE |
| AMOUNT |

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| --- |
| **CUSTOMER** |
| ID (PK) |
| NAME |
| GENDER |
| MOBILE |
| EMAIL |

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| --- |
| **REVIEW** |
| ID (PK) |
| PRODUCT\_ID (FK) |
| DATE |
| TEXT |
| RATING |

|  |
| --- |
| **ORDER** |
| ID (PK) |
| ORDER\_ID (FK) |
| PRODUCT\_ID (PK) |
| ORDER\_DATE |
| STATUS |
| QUANTITY |

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| --- |
| **PRODUCT** |
| ID (PK) |
| NAME |
| CATEGORY |
| UNIT PRICE |
| PRODUCT DESCRIPTION |

**PHYSICAL DATA MODEL**

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| **CUSTOMER** |
| ID (PK) NUMBER |
| NAME VARCHAR(50) |
| GENDER VARCHAR(5) |
| MOBILE VARCHAR(10) N |
| EMAIL VARCHAR(50) |

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| **PAYMENT** |
| ID (PK) NUMBER |
| PRODUCT\_ID (FK) NUMBER |
| TYPE VARCHAR(30) |
| DATE DATE N |
| AMOUNT NUMBER |

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| **REVIEW** |
| ID (PK) NUMBER |
| PRODUCT\_ID (FK) NUMBER |
| DATE DATE N |
| TEXT VARCHAR(200) |
| RATING NUMBER(2) |

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| **ORDER** |
| ID (PK) NUMBER |
| ORDER\_ID (FK) NUMBER |
| PRODUCT\_ID (PK) NUMBER |
| ORDER\_DATE DATE N |
| STATUS VARCHAR(20) |
| QUANTITY NUMBER |

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| --- |
| **PRODUCT** |
| ID (PK) NUMBER |
| NAME VARCHAR(50) N |
| CATEGORY VARCHAR(30) |
| UNIT PRICE NUMBER N |
| PRODUCT DESCRIPTION VARCHAR(200) |