

# [Skate queries](https://assignbuster.com/skate-queries/)

Lanea Hall American InterContinental ITCO231 Individual 4 May In this paper the field specifications for the database for Fernando’s Skate Shop are discussed. Moreover the queries are also implemented on the finalized complete design of database for Fernando’s Skate Shop is discussed. The RDBMS used is Microsoft Access 2007. The rationale for field specifications is discussed for the clarity of understanding. There are 2 queries implemented. The queries are really helpful in assessing the sale volume and the records of purchases done by the customers. This database can be useful for futuristic evaluation of business and for launching promotions by figuring out the sales volume and regular customers.   
Introduction:   
This report describes the features and specifications of the fields formulated for the database tables designed for “ Fernando’s Skate Shop”. This design is implemented using MS-Access 2007. The database design comprises of six tables. The descriptions of the fields of tables are shown through Table 1. 1 – Table 1. 6   
Table 1. 1. The Field specifications for the CUSTOMER Table   
Field Name   
Type   
Size   
CustomerID   
Text   
5   
Primary Key   
LastName   
Text   
20   
FirstName   
Text   
20   
Address   
Text   
30   
City   
Text   
15   
State   
Text   
3   
Zip   
Text   
5   
Telephone   
Text   
10   
Input mask attached   
E-mail   
Text   
40   
Table 1. 2. The Field specifications for the SUPPLIER Table   
Field Name   
Type   
Size   
CustomerID   
Text   
5   
Primary Key   
LastName   
Text   
20   
FirstName   
Text   
20   
Address   
Text   
30   
City   
Text   
15   
State   
Text   
3   
Zip   
Text   
5   
Telephone   
Text   
10   
Input mask attached   
E-mail   
Text   
40   
Table 1. 3. The Field specifications for the PRODUCTTYPE Table   
Field Name   
Type   
Size   
TypeID   
AutoNumber   
Long Integer   
Primary Key   
TypeDescription   
Text   
15   
Table 1. 4. The Field specifications for the PRODUCTS Table   
Field Name   
Type   
Size   
ProductID   
Text   
20   
Primary Key   
ProductName   
Text   
40   
ProductType   
Number   
Long Integer   
Foreign Key. Long Integer synchronizes with the data type of Primary key of PRODUCTTYPE table. The lookup property is used to attach this field with its master table.   
Price   
Number   
Single   
Involves decimal places.   
StockUnits   
Number   
Long Integer   
Table 1. 5. The Field specifications for the DAILYORDERS Table   
Field Name   
Type   
Size   
OrderID   
AutoNumber   
Long Integer   
Primary Key   
DateOf Sale   
Date/Time   
ProductID   
Text   
20   
Foreign Key. Combo box attached in Lookup Property   
CustomerID   
Text   
5   
Foreign Key. Combo box attached in Lookup Property.   
Quantity   
Number   
Long Integer   
ModeOfTransaction   
Text   
15   
Like Cash, Credit Card, Debit Transfer etc.   
Table 1. 6. The Field specifications for the PURCHASERECORDS Table   
Field Name   
Type   
Size   
PurchaseID   
AutoNumber   
Long Integer   
Primary Key   
ItemDescription   
Text   
20   
QuantityPurchased   
Number   
Long Integer   
RateperUnit   
Number   
Single   
Date of Purchase   
Date/Time   
SupplierID   
Text   
5   
Foreign Key. Combo box attached in Lookup property.   
Queries:   
There explanation of the two queries introduced in the database is as follows,   
Query1: Customer with Orders   
This query uses 4 tables to retrieve data and produce results. It returns the sale details with Customer names, Product Names, Product Type and Date of Sale. Figure 1. 2 highlights the design of this query.   
Figure 1. 2. Query 1: Customer with Orders   
Query2: Products with details of Sales   
This query uses 3 tables to retrieve data and produce results. It returns the sales volume details with Product Names, respective Price, Sum of quantity of each product sold and Sum of sales amount for each product (calculated by retrieving values from two different tables). Figure 1. 3 highlights the design of this query.   
Figure 1. 3. Query 2: Product with Details of Sales   
The Learning Outcomes   
Following are the things that are learnt through this exercise,   
Identification of possible specifications for fields. from a given scenario.   
Maintaining constraints for foreign keys.   
Using the lookup property   
Understanding and Creating queries to produce useful output from the recorded data.   
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