

Make Changes to MySQL Database and TABLES

1. Making changes to the Column (e.g. Changing the data type from `int` to `CHAR`)

```
ALTER TABLE table_name  
MODIFY COLUMN column_name datatype;
```

```
ALTER TABLE products  
MODIFY COLUMN product_id CHAR (11)  
NOT NULL,
```

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2. Adding another column

```
ALTER TABLE table_name  
ADD column_name datatype;
```

```
ALTER TABLE products  
ADD department VARCHAR (20) NOT  
NULL;
```

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3. Dropping a Column

```
ALTER TABLE Persons  
DROP COLUMN DateOfBirth;
```

```
ALTER table products  
DROP COLUMN department;
```

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4. Renaming the table

```
RENAME TABLE table_name TO new table_name;
```

```
RENAME TABLE products TO produce;
```

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5. Add an index on column

```
ALTER TABLE table_name  
ADD INDEX idex_name;
```

```
ALTER TABLE product  
ADD INDEX product_index;
```

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6. Dropping primary key

```
ALTER table table_name
```

```
DROP PRIMARY KEY;
```

```
ALTER table results
```

```
DROP PRIMARY KEY;
```

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6. Add a column and make it primary key

```
ALTER table table_name
```

```
ADD column_name data type Primary Key
```

```
ALTER table results
```

```
ADD results_id int NOT NULL  
AUTO_INCREMENT PRIMARY KEY;
```

Retrieving Data From Multiple MySQL TABLES

1. MySQL JOINS

- Used to retrieve data from multiple tables; or more tables are joined in a SQL statement
- Different types of MySQL joins are:-
 - i. **INNER JOIN** (simple join)
 - ii. **LEFT OUTER JOIN** (LEFT JOIN)
 - iii. **RIGHT OUTER JOIN** (RIGHT JOIN)
 - iv. **FULL JOIN**