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title: "HW04a"
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date: "Creation date: 2020-02-11"
output: pdf_document
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```

Use table `patient_type` in EHR data mart. This table `patient_type` has 2 fields. Refer to the page "Data used in this module" for a description of the data and where you can download it. Oracle users do not need to download anything.

Q1. Order all the fields by `Pat_type_desc`

```
```{r q1}
library(sqldf)
db <- dbConnect(SQLite(),
  dbname=" ../data/hospital_db.sqlite")
ordered_data <- dbGetQuery(conn=db,
  "select *
    from patient_type
    order by Pat_type_desc")
ordered_data
```
```

Q2. Select all fields where `Pat_type_desc` starts with 'Inp'

```
```{r q2}
inp_data <- dbGetQuery(conn=db,
  "select *
    from patient_type
    where Pat_type_desc like 'Inp%'" )
inp_data
```
```

Q3. Select first four rows from the table

```
```{r q3}
first_four_data <- dbGetQuery(conn=db,
  "select *
    from patient_type
    limit 4")
first_four_data
dbDisconnect(conn=db)
```
```

# HW04a

*Steve Simon*

*Creation date: 2020-01-31*

Use the database `crawling_db`. Refer to the page “Data used in this module” for a description of the data and where you can download it. Oracle users do not need to download anything.

Use table `patient_type` in EHR data mart. This table `patient_type` has 2 fields.

`Pat_type_id` (Patient Type Id) `Pat_type_desc` (Patient Type Desc)

Q1. Order all the fields by `Pat_type_desc`

```
library(sqldf)
```

```
## Loading required package: gsubfn
```

```
## Loading required package: proto
```

```
## Loading required package: RSQLite
```

```
db <- dbConnect(SQLite(),
  dbname="../data/hospital_db.sqlite")
ordered_data <- dbGetQuery(conn=db,
  "select *
  from patient_type
  order by Pat_type_desc")
ordered_data
```

```
##   PAT_TYPE_ID   PAT_TYPE_DESC
## 1         78      Clinic
## 2         79   Community
## 3         84   Emergency
## 4         87   Inpatient
## 5         89   Laboratory
## 6         92 Non-Patient
## 7        142   Not Mapped
## 8         93   Observation
## 9         97 Other Specialty
## 10        98   Outpatient
## 11        104   Recurring
## 12       110 Unknown / Invalid
```

Q2. Select all fields where `Pat_type_desc` starts with ‘Inp’

```
inp_data <- dbGetQuery(conn=db,
  "select *
  from patient_type
  where Pat_type_desc like 'Inp%')
inp_data
```

```
## PAT_TYPE_ID PAT_TYPE_DESC
## 1          87      Inpatient
```

Q3. Select first four rows from the table

```
first_four_data <- dbGetQuery(conn=db,
"select *
  from patient_type
  limit 4")
first_four_data
```

```
## PAT_TYPE_ID PAT_TYPE_DESC
## 1          110 Unknown / Invalid
## 2           79      Community
## 3           84      Emergency
## 4           89      Laboratory
```

```
dbDisconnect(conn=db)
```