

# Actividad 3 challenge 8

```
CREATE DATABASE IF NOT EXISTS `developers` /*!40100 DEFAULT CHARACTER SET utf8 COLLATE utf8_spanish_ci */ /*!80016 DEFAULT ENCRYPTION=
USE `developers`;
-- MySQL dump 10.13 Distrib 8.0.31, for Win64 (x86_64)
--
-- Host: localhost    Database: developers
--
-----
-- Server version 8.0.31

/*!40101 SET @OLD_CHARACTER_SET_CLIENT=@@CHARACTER_SET_CLIENT */;
/*!40101 SET @OLD_CHARACTER_SET_RESULTS=@@CHARACTER_SET_RESULTS */;
/*!40101 SET @OLD_COLLATION_CONNECTION=@@COLLATION_CONNECTION */;
/*!50503 SET NAMES utf8 */;
/*!40103 SET @OLD_TIME_ZONE=@@TIME_ZONE */;
/*!40103 SET TIME_ZONE='+00:00' */;
/*!40014 SET @OLD_UNIQUE_CHECKS=@@UNIQUE_CHECKS, UNIQUE_CHECKS=0 */;
/*!40014 SET @OLD_FOREIGN_KEY_CHECKS=@@FOREIGN_KEY_CHECKS, FOREIGN_KEY_CHECKS=0 */;
/*!40101 SET @OLD_SQL_MODE=@@SQL_MODE, SQL_MODE='NO_AUTO_VALUE_ON_ZERO' */;
/*!40111 SET @OLD_SQL_NOTES=@@SQL_NOTES, SQL_NOTES=0 */;

--
-- Table structure for table `hub`
--

DROP TABLE IF EXISTS `hub`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8 */;
CREATE TABLE `hub` (
  `id` tinyint unsigned NOT NULL AUTO_INCREMENT,
  `nombre` varchar(45) CHARACTER SET utf8 COLLATE utf8_general_ci NOT NULL,
  `provincia` char(2) CHARACTER SET utf8 COLLATE utf8_spanish_ci NOT NULL,
  PRIMARY KEY (`id`),
  KEY `fk_hub_provincia_idx` (`provincia`),
  CONSTRAINT `fk_hub_provincia` FOREIGN KEY (`provincia`) REFERENCES `provincia` (`codigo`)
) ENGINE=InnoDB AUTO_INCREMENT=5 DEFAULT CHARSET=utf8 COLLATE=utf8_spanish_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `hub`
--

LOCK TABLES `hub` WRITE;
/*!40000 ALTER TABLE `hub` DISABLE KEYS */;
INSERT INTO `hub` VALUES (1,'Campus Madrid by Google','28'),(2,'Impact Hub','29'),(3,'Silicon Alley','28'),(4,'TheCube','28');
/*!40000 ALTER TABLE `hub` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `programador`
--

DROP TABLE IF EXISTS `programador`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8 */;
CREATE TABLE `programador` (
  `idProgramador` tinyint unsigned NOT NULL AUTO_INCREMENT,
  `dni` varchar(9) CHARACTER SET utf8 COLLATE utf8_spanish_ci NOT NULL,
  `nombreP` varchar(100) CHARACTER SET utf8 COLLATE utf8_spanish_ci NOT NULL,
  `ap1` varchar(100) CHARACTER SET utf8 COLLATE utf8_spanish_ci NOT NULL,
  `ap2` varchar(100) CHARACTER SET utf8 COLLATE utf8_spanish_ci DEFAULT NULL,
  `salario` smallint unsigned NOT NULL,
  `hub` tinyint unsigned NOT NULL,
  `seccion` tinyint unsigned NOT NULL,
  PRIMARY KEY (`idProgramador`),
  UNIQUE KEY `dni` (`dni`),
  KEY `fk_programador_hub1_idx` (`hub`),
  KEY `fk_programador_seccion1_idx` (`seccion`),
  CONSTRAINT `fk1` FOREIGN KEY (`hub`) REFERENCES `hub` (`id`),
  CONSTRAINT `fk2` FOREIGN KEY (`seccion`) REFERENCES `seccion` (`idSeccion`)
) ENGINE=InnoDB AUTO_INCREMENT=15 DEFAULT CHARSET=utf8 COLLATE=utf8_spanish_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `programador`
--

LOCK TABLES `programador` WRITE;
/*!40000 ALTER TABLE `programador` DISABLE KEYS */;
INSERT INTO `programador` VALUES (1,'25498262W','Javier','Galet','de las Heras',2000,1,2),(2,'11616417Z','Juan Carlos','Martin','Carras
```

```

/*!40000 ALTER TABLE `programador` ENABLE KEYS */;
UNLOCK TABLES;

--
-- Table structure for table `provincia`
--

DROP TABLE IF EXISTS `provincia`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8 */;
CREATE TABLE `provincia` (
  `codigo` char(2) CHARACTER SET utf8 COLLATE utf8_spanish_ci NOT NULL,
  `nombreProvincia` varchar(45) CHARACTER SET utf8 COLLATE utf8_spanish_ci NOT NULL,
  PRIMARY KEY (`codigo`)
) ENGINE=InnoDB DEFAULT CHARSET=utf8mb3 COLLATE=utf8_spanish_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `provincia`
--

LOCK TABLES `provincia` WRITE;
/*!40000 ALTER TABLE `provincia` DISABLE KEYS */;
INSERT INTO `provincia` VALUES ('01','Álava'),('02','Albacete'),('03','Alicante'),('04','Almería'),('05','Ávila'),('06','Badajoz'),('07','Balears'),('08','Barcelona'),('09','Burgos'),('10','Cádiz'),('11','Castellón'),('12','Cataluña'),('13','Ciudad Real'),('14','Córdoba'),('15','Coruña'),('16','Cádiz'),('17','Girona'),('18','Granada'),('19','Guadalajara'),('20','Huelva'),('21','Huesca'),('22','Jaca'),('23','Jaén'),('24','León'),('25','Lleida'),('26','Lugo'),('27','Madrid'),('28','Madrid'),('29','Málaga'),('30','Murcia'),('31','Navarra'),('32','Nerja'),('33','Ourense'),('34','Palencia'),('35','Pontevedra'),('36','Salamanca'),('37','Segovia'),('38','Sevilla'),('39','Soria'),('40','Tenerife'),('41','Tarragona'),('42','Teruel'),('43','Tortosa'),('44','Valencia'),('45','Valladolid'),('46','Vizcaya'),('47','Zamora'),('48','Zaragoza');
UNLOCK TABLES;

--
-- Table structure for table `seccion`
--

DROP TABLE IF EXISTS `seccion`;
/*!40101 SET @saved_cs_client      = @@character_set_client */;
/*!50503 SET character_set_client = utf8 */;
CREATE TABLE `seccion` (
  `idSeccion` tinyint unsigned NOT NULL AUTO_INCREMENT,
  `nombreS` varchar(99) NOT NULL,
  `partidaEconomica` double unsigned NOT NULL,
  `desembolso` double unsigned NOT NULL,
  PRIMARY KEY (`idSeccion`)
) ENGINE=InnoDB AUTO_INCREMENT=8 DEFAULT CHARSET=utf8 COLLATE=utf8_spanish_ci;
/*!40101 SET character_set_client = @saved_cs_client */;

--
-- Dumping data for table `seccion`
--

LOCK TABLES `seccion` WRITE;
/*!40000 ALTER TABLE `seccion` DISABLE KEYS */;
INSERT INTO `seccion` VALUES (1,'Frontend',230000,7000),(2,'Backend',260000,32000),(3,'Full Stack',390000,36000),(4,'Centro de Atención al Cliente',200000,100000),(5,'Desarrollo de Software',250000,150000),(6,'Marketing Digital',180000,80000),(7,'Servicio al Cliente',150000,60000);
UNLOCK TABLES;
/*!40103 SET TIME_ZONE=@OLD_TIME_ZONE */;

/*!40101 SET SQL_MODE=@OLD_SQL_MODE */;
/*!40014 SET FOREIGN_KEY_CHECKS=@OLD_FOREIGN_KEY_CHECKS */;
/*!40014 SET UNIQUE_CHECKS=@OLD_UNIQUE_CHECKS */;
/*!40101 SET CHARACTER_SET_CLIENT=@OLD_CHARACTER_SET_CLIENT */;
/*!40101 SET CHARACTER_SET_RESULTS=@OLD_CHARACTER_SET_RESULTS */;
/*!40101 SET COLLATION_CONNECTION=@OLD_COLLATION_CONNECTION */;
/*!40111 SET SQL_NOTES=@OLD_SQL_NOTES */;

-- Dump completed on 2023-02-28 10:52:01

```

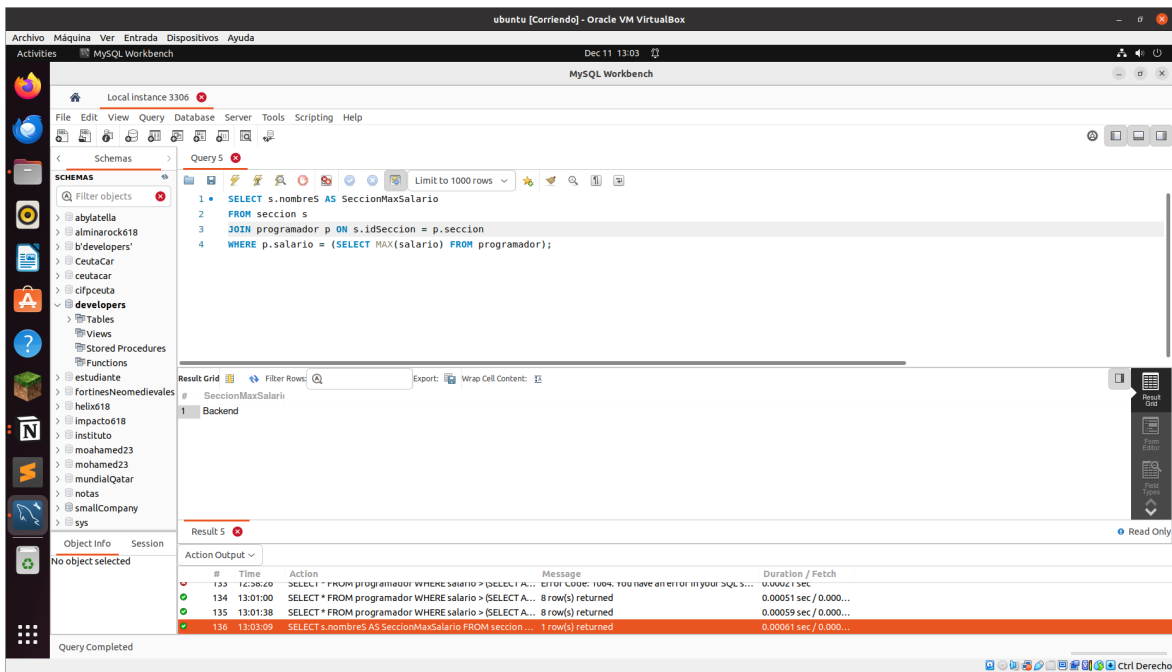
[developersok \(1\).sql](#)

### 1. Muestra la sección cuyo desarrollador tenga el salario máximo:

```

SELECT s.nombreS AS SeccionMaxSalario
FROM seccion s
JOIN programador p ON s.idSeccion = p.seccion
WHERE p.salario = (SELECT MAX(salario) FROM programador);

```

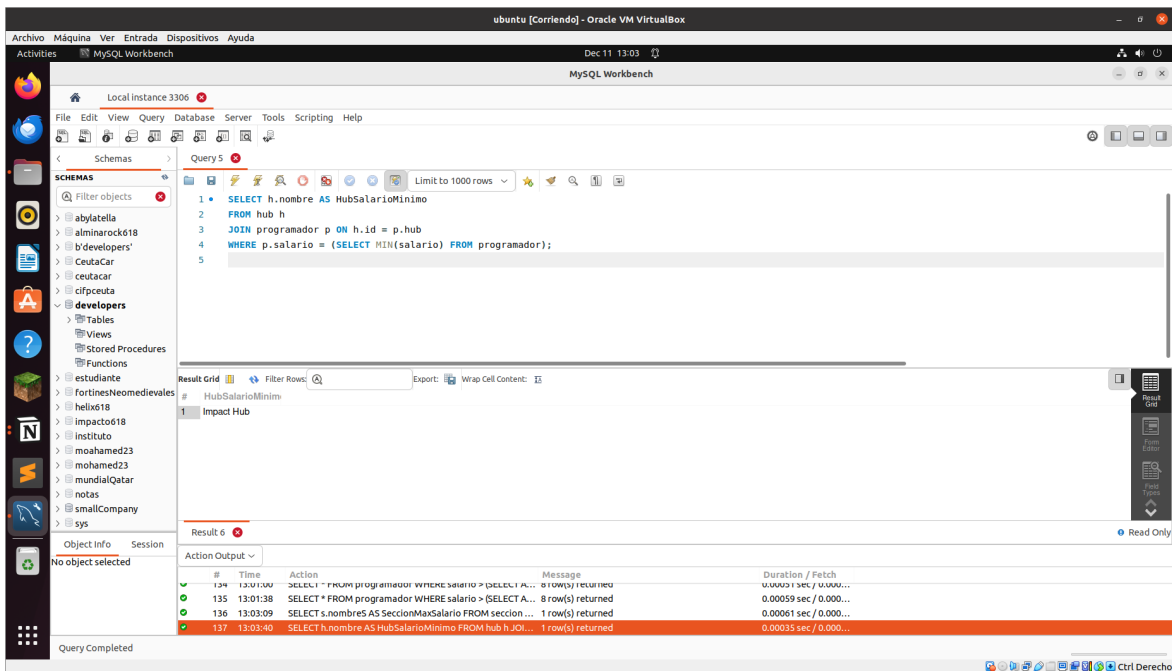


2. Muestra el nombre del hub en el que trabaja el desarrollador con el salario más bajo:

```

SELECT h.nombre AS HubSalarioMinimo
FROM hub h
JOIN programador p ON h.id = p.hub
WHERE p.salario = (SELECT MIN(salario) FROM programador);

```

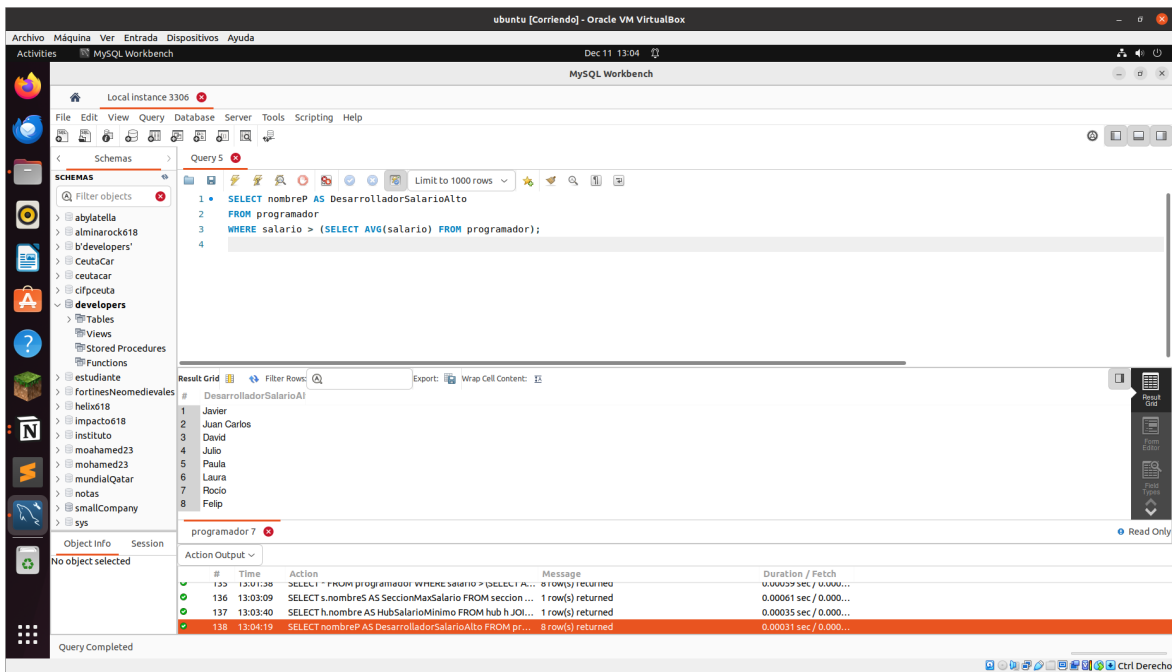


3. Selecciona el nombre de los desarrolladores cuyo salario está por encima del salario medio:

```

SELECT nombreP AS DesarrolladorSalarioAlto
FROM programador
WHERE salario > (SELECT AVG(salario) FROM programador);

```

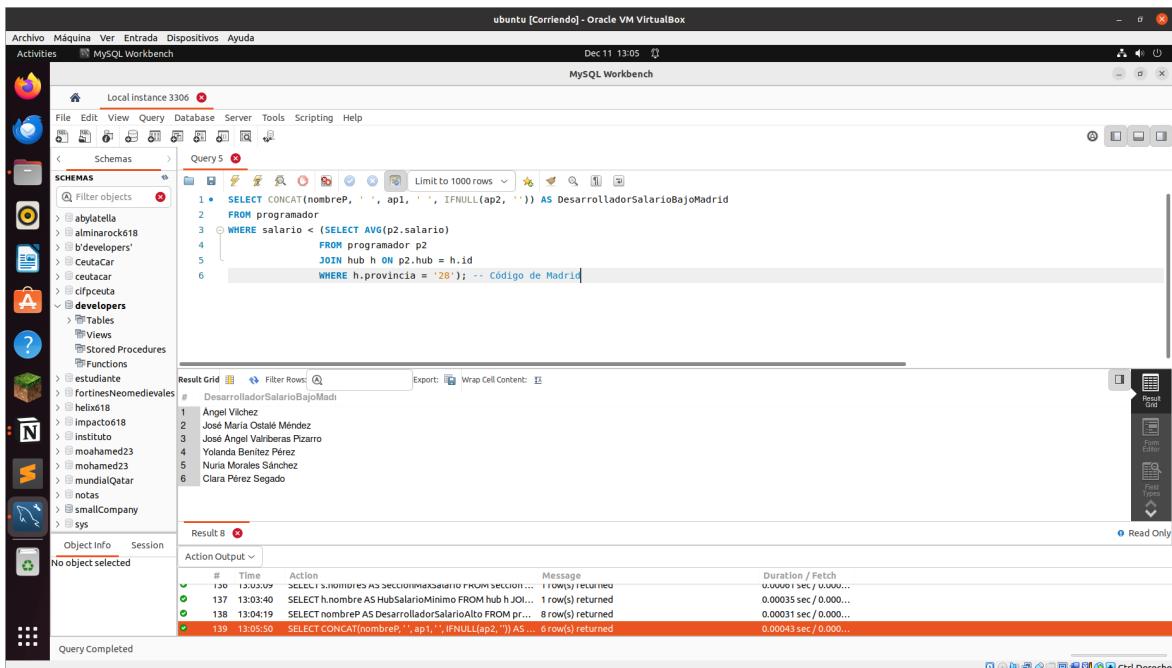


4. Selecciona el nombre completo de los desarrolladores cuyo salario es menor que el salario medio de los desarrolladores cuyo hub se encuentra situado en Madrid:

```

SELECT CONCAT(nombreP, ' ', ap1, ' ', IFNULL(ap2, '')) AS DesarrolladorSalarioBajoMadrid
FROM programador
WHERE salario < (SELECT AVG(p2.salario)
FROM programador p2
JOIN hub h ON p2.hub = h.id
WHERE h.provincia = '28');

```



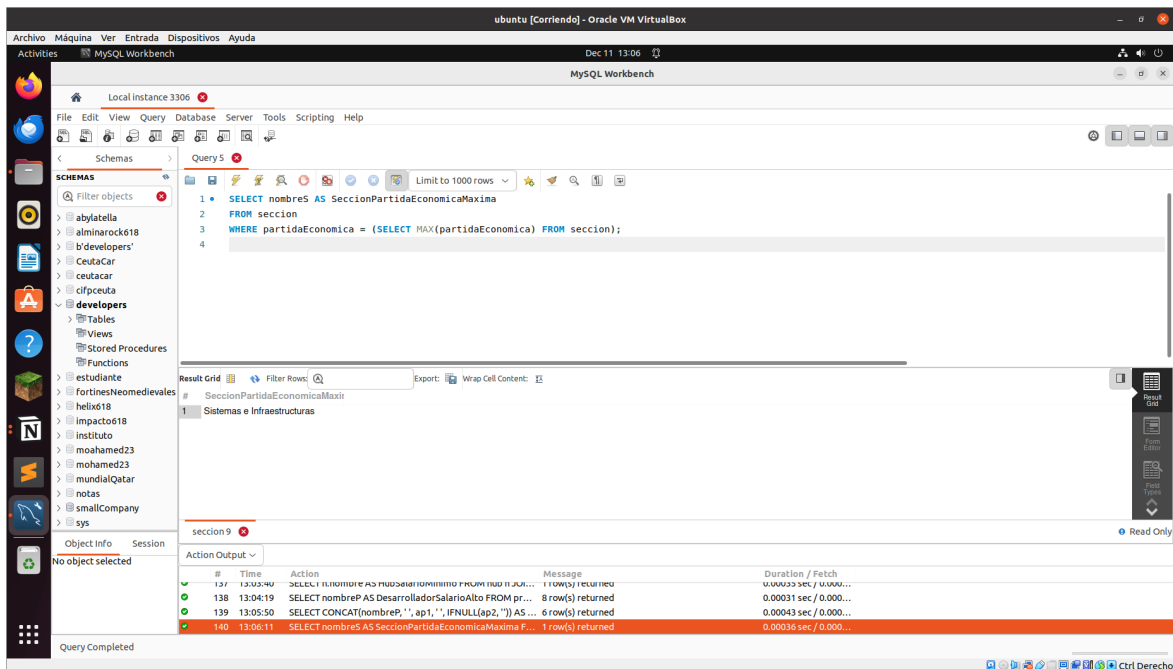
5. Selecciona el nombre de la sección cuya partida económica es mayor:

```

SELECT nombres AS SeccionPartidaEconomicaMaxima
FROM seccion

```

```
WHERE partidaEconomica = (SELECT MAX(partidaEconomica) FROM seccion);
```



## 6. Selecciona el nombre de las secciones cuyo desembolso es mayor que el desembolso medio:

```
SELECT nombres AS SeccionDesembolsoAlto
FROM seccion
WHERE desembolso > (SELECT AVG(desembolso) FROM seccion);
```

